Summer 2010 Product Catalog

CSI Communications Specialties, Inc.

Contents

RGB and Audio

7220 RGB Series

Digitally transmits high-resolution RGB (up to WXGA) and stereo audio over one single mode or multimode fiber optic core

CSI Communications Specialties, Inc.

Box or Card

Features

Ideal Applications:

Digital signage, command and control centers, auditoriums, stadiums and theaters, transportation hubs, distance learning, surgical and medical imaging

Supports VGA, SVGA, XGA and WXGA (640 x 480 up to 1366 x 768)

Supports HDTV resolutions of 480p, 720p and 1080i (RGBHV format only)

Uses all digital processing with no compression for crystal clear signals and no color pixel skewing

Requires no adjustments, equalization or de-skewing during installation

Transmits signals over one single mode or multimode fiber optic core at 1310 nm wavelength

Low audio/video skew, <300 uSec

Use with Fiberlink 8000 and 8100 Series Optical DAs for complex point-to-multipoint distribution

RoHS Compliant

7220/7221

Complete kit available for a point-to-point "ready to install" solution. Includes transmitter, receiver, power supplies, 250 meters of fiber and various audio and VGA cables. Box and card units available. Card versions fill one slot in 6000A card cage.

7222/7224/7226
4, 8 or 12 optical output models for point-to-multipoint distribution

Compatible with all 7220 Series receivers

1 RU case with internal power supply

7223/7225/7227
Compatible with all 7220 Series transmitters

Models support optical looping for daisy-chain distribution

Models support up to 4 baseband video and stereo audio outputs

Available in box version only. Power supply sold separately

7220 Series (all models) - Digital

Signal	Channels	Direction
RGB	1	→
Audio	2	→

Optical Outputs

Model	Standard	Loop-Thru
7220	1	0
7222	4	0
7224	8	0
7226	12	0
7225, 7227	0	1
7221, 7223	0	0

Baseband Outputs

Model	RGB	Audio
7221, 7225	1	2
7223, 7227	4	8
7222, 7224, 7226	1 loop-thru	2 channel loop-thru

Sales

CSI Communications Specialties, Inc.

631-273-0404 | commspecial.com
info@commspecial.com

Point-to-Point Distribution

High-Res RGB,
up to WXGA with
Stereo Audio

7220 Tx

Fiber Cable

7221 Rx

High-Res RGB display
with Stereo Audio
(Plasma, DLP, etc.)

Point-to-Point Distribution; Multiple Baseband Outputs
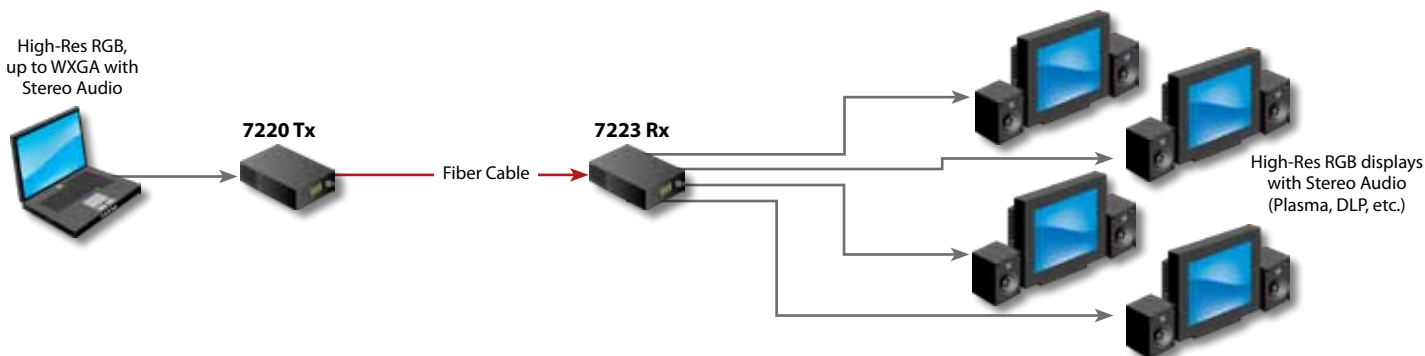
High-Res RGB,
up to WXGA with
Stereo Audio

7220 Tx

Fiber Cable

7223 Rx

High-Res RGB displays
with Stereo Audio
(Plasma, DLP, etc.)

Point-to-Multipoint Distribution

High-Res RGB,
up to WXGA with
Stereo Audio

7222 Tx

Fiber
Cables

7221 Rx

7221 Rx

7221 Rx

7221 Rx

High-Res RGB displays
with Stereo Audio
(Plasma, DLP, etc.)
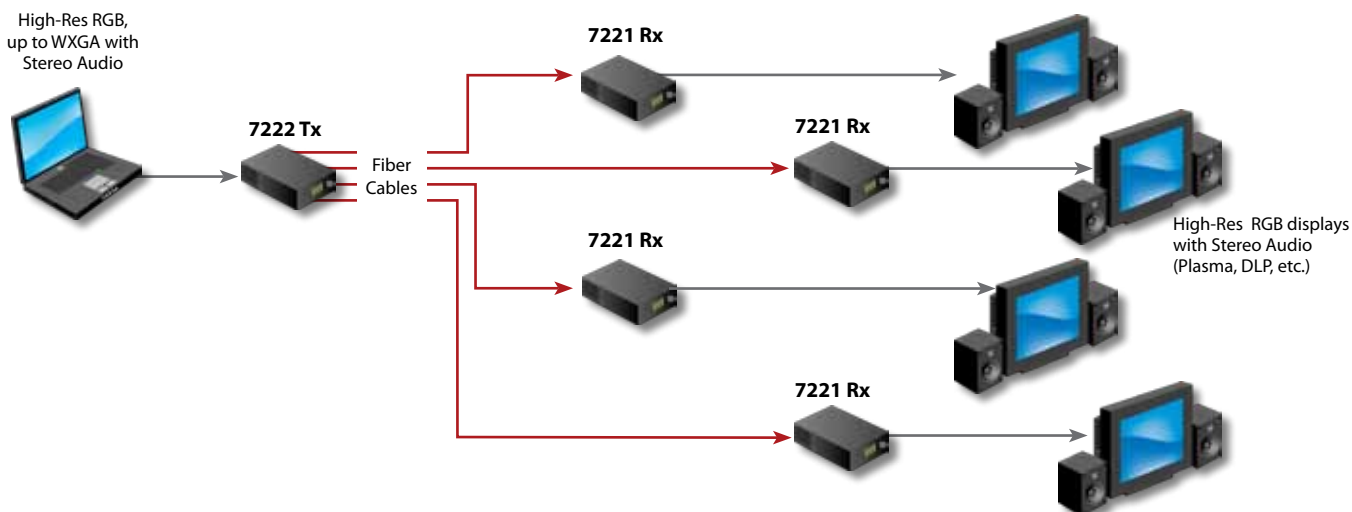
Drop-and-Repeat Distribution with Optical Loop-Through at Receiver; 1 or 4 Baseband Outputs

High-Res RGB,
up to WXGA with
Stereo Audio

**7220 Tx Card
Mounted in a
6000A Card Cage**

Fiber Cable

7227 Rx

Optical
Loop-Through

7221 Rx

High-Res RGB displays
with Stereo Audio
(Plasma, DLP, etc.)

Video Specifications

Number of Video Channels Supported

7220, 7221, 7223, 7225, 7227	1 RGBHV
7222, 7224, 7226	1 RGBHV with active loop-thru on input

Number of Baseband Video Outputs

7221, 7225	1 RGBHV
7223, 7227	4 RGBHV
RGB Processing	24 bits, no compression, scaling or color space conversion
Input Impedance	RGB: 75 Ohms; H & V: Hi-Z
Input Level	RGB: 714 mV p-p; H & V: 3 to 5 V p-p
H Sync Frequency Range	31.5 to 60 kHz
V Sync Frequency Range	30 to 85 Hz
RGB Format Supported	RGB with separate H and V

Audio Specifications

Number of Audio Channels Supported

7220, 7221, 7223, 7225, 7227	2, unbalanced
7222, 7224, 7226	2, unbalanced, with passive loop-thru on input

Number of Baseband Audio Outputs

7221, 7225	2, unbalanced
7223, 7227	8, unbalanced
Frequency Response	+0/-0.5 dB, 20 Hz - 20 kHz
Bits-per-Sample/Sampling Rate	24 bits; 54 kHz
THD+N	0.005%, 20 Hz - 20 kHz

Maximum Audio Level	+10 dBu
SNR (A-Weighted)	95 dB
Channel Phase Differential	$\pm$0.1°
Crosstalk	Min. 95 dB (1kHz)
Input Impedance	>24 k Ohms
Output Impedance	< 1 Ohm
Audio to Video Differential Delay (skew)	<300 uSec

General Specifications

LED Indicators	Power, Video, Audio
Card version only of 7220 & 7221	Alarm LED

Power Requirements

7220*, 7221*	9-24 volts AC or DC, 5 watts
7222, 7224, 7226	95-250 volts AC, 47-63 Hz, 9 watts
7223*, 7225*, 7227*	9-24 volts AC or DC, 8 watts

*For operation from 95-250 volts AC, 50/60 Hz, a PDPS-1 plug-in adapter is required.

Physical Size

7220, 7221	5 W x 1.15 H x 5.25 L (inches) 127 W x 29 H x 133 L (mm)
7222, 7224, 7226	16.75 W x 1.75 H x 10 D (inches) 425 W x 44 H x 254 D (mm)
7223, 7225, 7227	6.5 W x 1.15 H x 8 L (inches) 165 W x 29 H x 203 L (mm)

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7220 RGB Series

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
1310 MM	0-15	0.75
1310 SM	0-15	30

SM = Single Mode Fiber
MM = Multimode Fiber

* Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

Class 1 Laser product complies with FDA performance standard for laser products, Title 21, Code of Federal Regulations, Sub-Chapter J.

Approximate Weight

7220, 7221	10 oz; 0.284 kg
7222, 7224, 7226	5.5 lbs; 2.6 kg
7223, 7225, 7227	1.2 lb; 0.55 kg
Optical Connectors	ST
Operating Wavelength	1310 nm
Operating Temp. Range	-20 to +60° C (7220/7221) -20 to +50ºC (all others)

Ordering Information

7220-KIT-pp*	Complete Kit - contents listed below**	1
7220-B7S	Transmitter, Box Version	1
7220-C7S	Transmitter, Card Version	1
7221-B7S	Receiver, Box Version	1
7221-C7S	Receiver, Card Version	1
7222-7S-pp	Transmitter (1 RU), 4 optical outputs	4
7224-7S-pp	Transmitter (1 RU), 8 optical outputs	8
7226-7S-pp	Transmitter (1 RU), 12 optical outputs	12
7223-B7S	Receiver (Box), 4 RGB w/audio outputs	1
7225-B7S	Receiver (Box), 1 RGB w/audio output, 1 re-clocked optical loop-through	2
7227-B7S	Receiver (Box), 4 RGB w/audio outputs, 1 re-clocked optical loop-through	2
PDPS-1-pp	Power Supply	
101933	6 ft. HD-15M to HD-15M VGA type cable	
1206	6 ft. HD-15M to 5 x BNC-M RGBHV cable	
1214	6 ft. 3.5 mm plug to 3.5 mm plug stereo audio cable	
1213	6 ft. 3.5 mm plug to 2 x RCA-M stereo audio cable	
6340	ST-M to FCPC-F adapter for multimode fiber	
6350	ST-M to FCPC-F adapter for single mode fiber	

***7220-KIT-pp includes:*

Qty	Part Number (described above)
1	7220-B7S
1	7221-B7S
2	PDPS-1-pp (specify line cord)
2	101933
1	1206
2	1214
1	1213
1	122960: 250 m (820 ft.) of plenum rated SM fiber with ST connectors and a pulling eye

*Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America

AU - Australia

EU - Europe

JP - Japan

UK - United Kingdom

About CSI

Communications Specialties, Inc. (CSI) is an award-winning manufacturer of Pro A/V products for the distribution, conversion or transmission of television and computer video signals, including fiber optic transmission systems, scan converters and video scalers. The company was founded in 1983 by veterans of the broadcast industry. Since then, CSI has managed to consistently design innovative products that are used worldwide by Fortune 500 Companies in a variety of markets such as Broadcast/Professional A/V, Videoconferencing, Education, Home Theater, Security, ITS, Industrial Monitoring, and more!

The **Fiberlink®** line offers an extensive and affordable family of fiber optic transmission systems for the Professional A/V marketplace and includes several ground-breaking products for the transmission of high-resolution RGB signals. Systems for point-to-point and point-to-multipoint signal distribution make these products highly desirable for any Pro A/V architecture. New products are constantly being designed and developed and you can get the latest information at commspecial.com

Also from CSI: Scan Do® Scan Converters and Deuce® Video Scalers

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7220 RGB Series

GSA Schedule Contract GS-03F-5063C

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor. See website for terms and conditions.

Want to learn more about fiber?

Log on to commspecial.com for fiber related resources written for Pro A/V Professionals by Pro A/V Professionals!

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7250 RGB Series

Digitally transmits high resolution RGB (up to WUXGA) and stereo audio over single mode or multimode fiber.

Ideal Applications:

Digital signage, command and control centers, auditoriums, stadiums and theaters, transportation hubs, distance learning, surgical or medical imaging
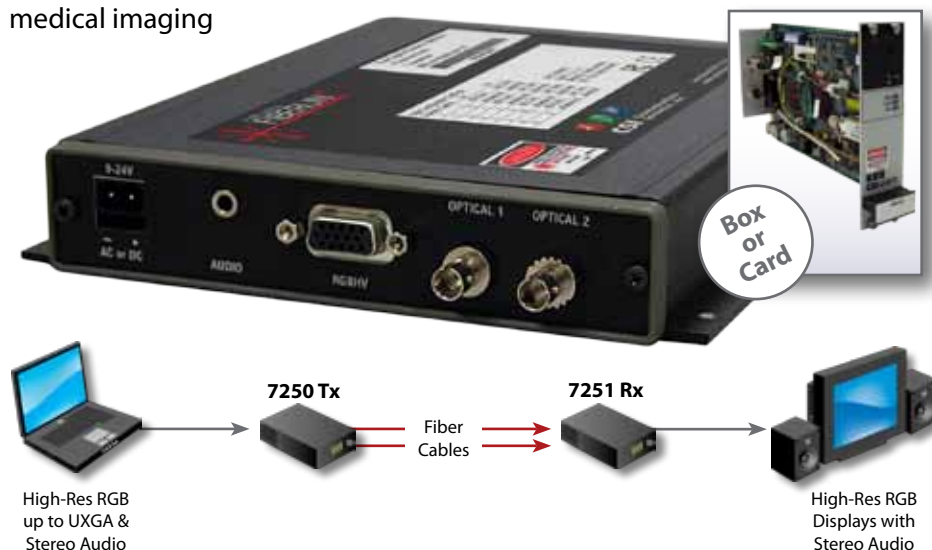
Signal	Channels	Direction
RGB (to WUXGA)	1	→
Audio	2	→

Box or Card

7250 Tx — Fiber Cables → **7251 Rx**

High-Res RGB up to UXGA & Stereo Audio

High-Res RGB Displays with Stereo Audio

Features

Transmits VGA, SVGA, XGA, WXGA, SXGA, SXGA+, UXGA and WUXGA (640 x 480 up to 1920 x 1200)

Supports HDTV resolutions of 480p, 720p, 1080i and 1080p (RGBHV format only)

Uses all digital processing with no compression for crystal clear signals and no color pixel skewing

Requires no adjustments, equalization or de-skewing during installation

Transmits signals over two single mode or multimode fiber optic cores at 1310 nm wavelength

Low audio/video skew, <300 uSec

Small, lightweight, uses low power

Complete kit available for a "ready to install" solution. Includes transmitter, receiver, power supplies, 250 meters of duplex fiber and various audio and VGA cables

Unique feature allows the two fibers to be cross connected without affecting operation!

Fiber cables can be up to 20 meters different in length!

RoHS Compliant

Ordering Information

Part Number	Description	Fiber Cores
7250-KIT-pp	Complete Kit - contents listed below*	2
7250-B7S	Transmitter, Box Version	2
7250-C7S	Transmitter, Card Version	2
7251-B7S	Receiver, Box Version	2
7251-C7S	Receiver, Card Version	2
PDPS-1-pp	Power Supply	
101933	6 ft. HD-15M to HD-15M VGA type cable	
1206	6 ft. HD-15M to 5 x BNC-M RGBHV cable	
1214	6 ft. 3.5 mm plug to 3.5 mm plug stereo audio cable	
1213	6 ft. 3.5 mm plug to 2 x RCA-M stereo audio cable	
6340	ST-M to FCPC-F adapter for multimode fiber	
6350	ST-M to FCPC-F adapter for single mode fiber	

7250-Kit-pp includes:

Qty	Part Number
1	7250-B7S
1	7251-B7S
2	PDPS-1-pp (specify line cord)
2	101933
1	1206
2	1214
1	1213
1	124857: 250 m (820 ft.) of plenum rated duplex SM fiber with ST connectors and a pulling eye

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America

AU - Australia

EU - Europe

JP - Japan

UK - United Kingdom

Sales

CSI Communications Specialties, Inc.

631-273-0404 | commspecial.com
info@commspecial.com

Video Specifications

Number of Video Channels	1 RGBHV
RGB Processing	24 bits, no compression or scaling
Input Impedance	RGB: 75 Ohms; H & V: Hi-Z
Input Level	RGB: 714 mV p-p; H & V: 3 to 5 V p-p
H Sync Frequency Range	15 to 75 kHz
V Sync Frequency Range	30 to 85 Hz
RGB Format Supported	RGB with separate H and V

Audio Specifications

Number of Audio Channels	2, unbalanced
Frequency Response	+0/-0.5 dB, 20 Hz - 20 kHz
Bits-per-Sample/Sampling Rate	24 bits; 54 kHz
Maximum Audio Level	+10 dBu
SNR (A-Weighted)	95 dB
THD+N	0.005%, 20 Hz - 20 kHz
Channel Phase Differential	$\pm0.1°$
Crosstalk	Min. 95 dB (1 kHz)
Input Impedance	>24 k Ohms
Output Impedance	< 1 Ohm
Audio to Video Diff. Delay (skew)	<300 uSec

General Specifications

LED Indicators	Power, Video, Audio, Alarm LED (card version only)
Allowable Differential Fiber Length	20 meters
Power Requirements*	9-24 volts AC or DC, 10 watts
Operating Temperature Range	-20ºC to +50ºC
Optical Connectors	ST x 2
Operating Wavelength	1310 nm
Physical Size	6.5 W x 1.15 H x 8 L (inches) 165 W x 29 H x 203 L (mm)
Weight	1 lb. (0.455 kg)
Slots filled in 6000A Card Cage	2

*For operation from 95-250 volts AC, 50/60 Hz, a PDPS-1 plug-in adapter is required.

FIBERLINK
VIDEO, AUDIO & DATA OVER FIBER

7250 RGB Series

GSA Schedule Contract GS-03F-5063C UL N12911 CE FC

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
1310 MM	0-15	0.75
1310 SM	0-15	30

SM = Single Mode Fiber
MM=Mulitmode Fiber

* Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

Want to learn more about fiber?

Log on to commspecial.com
for fiber related resources written
for Pro A/V Professionals by
Pro A/V Professionals!

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction
guarantee and a three-year limited
warranty on parts and labor.
See website for terms and conditions.

RGB, Audio and Data

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7240 RGB Series

AV meets IT with this revolutionary fiber product, combining RGBHV, stereo audio, Ethernet and 2-way data support, all over a single fiber optic core

Ideal Applications:

Conference Rooms, Class Rooms, Boardrooms, Command and Control, Transportation Hubs, Airports, Museums

Box or Card

Signal	Channels	Direction
7240/7241		
RGB	1	→
Audio	2	→
10Base-T	1	↔
Data	1	↔
7242/7243		
RGB	1	→
Audio	2	→
Data	1	→
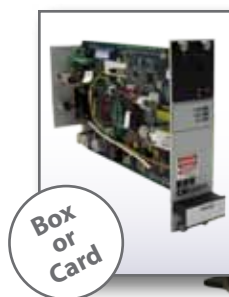
RGBHV, Stereo Audio and 2-Way Data (Ethernet or RS-232)

High-Res RGBHV up to WXGA with Stereo Audio

LAN Hub — 10Base-T — **7240 Tx** — Fiber Cable — **7241 Rx** — RGBHV with Stereo Audio — 10Base-T

Network
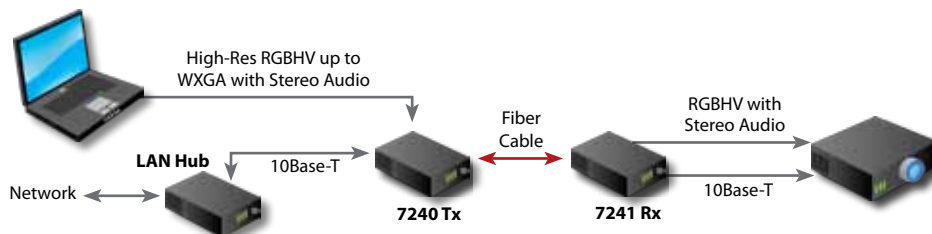
RGBHV, Stereo Audio and 1-way Data

High-Res RGBHV up to WXGA with Stereo Audio

RS-232 — **7242 Tx** — Fiber Cable — **7243 Rx** — RGBHV with Stereo Audio — RS-232

Plasma with Stereo Audio

Features

Digitally transmits RGBHV, stereo audio, bidirectional 10Base-T and bidirectional data over a single fiber.

Transmitter/receiver pair for RGBHV, stereo audio and one-way data also available.

Supports VGA, SVGA, XGA and WXGA (640 x 480 up to 1366 x 768), and HDTV resolutions of 480p, 720p and 1080i (RGBHV format only).

Uses single mode or multimode fiber; see ordering information.

Low audio/video skew, <300 uSec

All digital processing and transmission delivers crystal clear signals and no color pixel skewing.

Transparent bidirectional 10Base-T support enables communication between a local device, such as a projector or a media controller, and a local area network (LAN) server.

Transparent bidirectional data channel supports RS-232, RS-422 and RS-485 protocols. 7242 & 7243 models support one-way RS-232 and RS-422.

Card or box version. Card fits within model 6000A card cage.

Ordering Information

Part Number	Description	Fiber Cores
7240-xyS	Transmitter - RGBHV, Audio, 10Base-T, 2-way data	1
7241-xyS	Receiver - RGBHV, Audio, 10Base-T, 2-way data	1
7242-x7S	Transmitter - RGBHV, Audio, 1-way data, SM or MM	1
7243-x7S	Receiver - RGBHV, Audio, 1-way data, SM or MM	1
PDPS-1-pp	Power Supply	
101933	6 ft. HD-15M to HD-15M VGA type cable	
1206	6 ft. HD-15M to 5 x BNC-M RGBHV cable	
1213	6 ft. 3.5 mm plug to 2 x RCA-M stereo audio cable	
1214	6 ft. 3.5 mm plug to 3.5 mm plug stereo audio cable	
6340	ST-M to FCPC-F adapter for multimode fiber	
6350	ST-M to FCPC-F adapter for single mode fiber	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
JP - Japan
AU - Australia
UK - United Kingdom
EU - Europe

Part Number Suffix Codes:

x: B Box Version
      C Card Version

y: 3 Multimode Version
      7 Single Mode Version

Video Specifications:

Number of Video Channels	1 RGBHV
Number of Baseband Video Outputs	1
RGB Processing	24 bits, no compression or scaling
Input Impedance	RGB: 75 Ohms; H & V: Hi-Z
Input Level	RGB: 714 mV p-p; H & V: 3 to 5 V p-p
H & V Sync Frequency Range	H: 15 to 60 kHz; V: 30 to 85 Hz
RGB Format Supported	RGB with separate H and V
Video Connector	HD-15F

Audio Specifications:

Number of Audio Channels	2
Number of Baseband Audio Outputs	2
Frequency Response	+0/-0.5 dB, 20 Hz - 20 kHz
Bits-per-Sample/Sampling Rate	24 bits; 52 kHz
Maximum Audio Level; SNR (A-Weighted)	+10 dBu; 95 dB
THD+N	0.005%, 20 Hz - 20 kHz
Channel Phase Differential	+0.1°
Crosstalk	Min. 95 dB (1 kHz)
Input & Output Impedance	Input: >24 k Ohms; Output: < 1 Ohm
Audio to Video Diff. Delay (skew)	<300 uSec
Audio Connector	3.5 mm jack

Ethernet Specifications: (7240/7241 only)

Port:	10Base-T, RJ-45 connector, Auto-MDIX
Speed:	10 Mbps Ethernet

Data Specifications:

Data Bandwidth	DC to 115 Kb/sec, max.
Control Format	switch selectable RS-232 & RS-422; Only the 7240/4241 models support RS-485 (2-wire and 4-wire)
Protocols	NRZ, NRZI, RZ, Manchester, Bi-phase
Signal Connectors:	Removable terminal block

General Specifications:

LED Indicators	Power, Video, Audio, Data, Link, Activity, Alarm (card version only)
Operating Temperature Range	-20° to +50° C
Operating Power	9-24 Volts AC or DC@7.4 watts (max.)
Optical Connectors	ST
Operating Wavelength	1310 nm; 1550 nm on return path - SM; 850 nm on return path - MM
Physical Size	6.5 W x 1.15 H x 8 L (inches) 165 W x 29 H x 203 L (mm)
Weight	Approx. 1 lb., 3 oz.; 0.589 kg
Slots filled in 6000A Card Cage	2

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7240 RGB Series

CE FC N12911

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
7240/7241		
1310 MM	0-10	0.35
1310 SM	0-15	30
7242/7243		
1310 MM	15	0.75
1310 SM	15	30

SM = Single Mode Fiber
MM = Multimode Fiber

* Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

Want to learn more about fiber?

Log on to commspecial.com for fiber related resources written for Pro A/V Professionals by Pro A/V Professionals!

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor. See website for terms and conditions.

Made in the USA

DVI and Audio

7510 DVI Series

DVI transmission (up to 1920x1200) and stereo audio over one single mode or multimode fiber without compression, scaling or adjustments.

Ideal Applications:

Digital signage, broadcast or corporate studios, auditoriums, stadiums and theaters, airport or transportation hubs, distance learning, surgical or medical imaging and more!

DVI up to 1920x1200 & Stereo Audio

Audio Performance Improved!

Box or Card

7510 Tx

Fiber Cable

7511 Rx

DVI Video Displays with Stereo Audio

DVI Loop-thru Monitor

Signal	Channels	Direction
DVI to WUXGA	1	→
Audio	2	→

Features

Transmits single-link DVI (640 x 480 up to 1920 x 1200 - 165 MHz pixel clock)

Supports HDTV resolutions of 480p, 720p, 1080i and 1080p (DVI format)

Uses no compression, color space conversion or scaling for crystal clear signals

Only one fiber used - no pixel skewing

Supports up to 45 foot (13.72m) DVI input cable

DVI Input loop-through on transmitter

Supports EDID from loop-through, internal emulation from the transmitter, or you may capture and store EDID information.

Requires no adjustments, equalization or de-skewing during installation

Advanced input circuit equalizes and re-clocks noisy and distorted DVI input signals

Two DVI outputs on box receiver allows for driving two monitors

Transmits signals over one fiber using advanced CWDM multiplexing

Low audio/video skew, <300 uSec

RoHS Compliant

Ordering Information

Part Number	Description	Fiber Cores
7510-xyS	Transmitter	1
7511-xyS	Receiver	1
7512-x1S	Transmitter, Dual MM Optical Outputs	2
7510-KIT-pp*	Complete 7510 Series Kit	1
PDPS-2-pp	Power Supply	N/A

*7510 Complete Kit Contents:

Qty	Part Number	Qty	Part Number
1	7510-B7S Transmitter (SM only)	1	7511-B7S Receiver (SM only)
2	PDPS-2-pp (specify line cord)	1	122960 - 250 Meter SM Fiber ST Connectors, pull hook
1	126216 - 6ft., DVI (M) to DVI (M)	2	1214 - 6ft., 3.5mm to 3.5mm stereo audio cable
1	1213 - 3.5mm to 2 RCA (M) stereo audio cable		

Power Supply Suffix Codes (pp) for AC Line Cord:
NA - North America   AU - Australia   EU - Europe
JP - Japan   UK - United Kingdom

Part Number Suffix Codes:

x: B   Box Version
      C   Card Version

y: 1   850 nm Multimode (MM)
      7   1310 nm Single Mode (SM)

7510, 7511, and 7512 are not compatible with 7500, 7501 or 7502 products

Sales

CSI Communications Specialties, Inc.

631-273-0404 | commspecial.com
info@commspecial.com

Video Specifications

Input Type	DVI-D or DVI-I (digital signal only) single link
Number of Video Channels	1 single-link DVI-D up to 1920x1200
Video Processing	24 bits, no compression or scaling
DVI Input Loop-through	Yes; both box & card versions
EDID (DDC) Support	From loop-through, internal or capture & storage capability
Pixel Clock Range	25 - 165 MHz, continuous
Scanning System Supported	Progressive or Interlaced
Color Space Format Supported	RGB or YPrPb
Maximum Input Cable Length	45 Feet (13.72m)
Maximum Output Cable Length	16 Feet (5m)
Number of DVI Outputs	2 on box version, 1 on card version

Audio Specifications

Number of Audio Channels	2, unbalanced
Frequency Response	+0/-0.5 dB, 20 Hz - 20 kHz
Bits-per-Sample/Sampling Rate	24 bits; >48 kHz
Maximum Audio Level	+10 dBu
SNR (A-Weighted)	100 dB
THD+N	0.001%, 20 Hz - 20 kHz
Channel Phase Differential	$\pm$0.1°
Crosstalk	100 dB (1 kHz)
Input Impedance	>24K Ohms
Output Impedance	< 1 Ohm
Audio to Video Diff. Delay (skew)	300 uSec

General Specifications

LED Indicators	Power, Video, Audio, Alarm LED (card version only)
Power Requirements*	9-24 volts AC or DC, 10 watts
Operating Temperature Range	-20°C to +45°C
Optical Connector	7510/7511: ST x 1 7512: ST x 2
Operating Wavelength	SM: CWDM (1300-1600nm band) MM: CWDM (850nm band)
Physical Size	6.5 W x 1.15 H x 8 L (inches) 165 W x 29 H x 203 L (mm)
Weight	1 lb. (0.455 kg)
Slots filled in 6000A Card Cage	3

*For operation from 95-250 volts AC, 50/60 Hz, a PDPS-2 plug-in adapter is required.

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER
7510 DVI Series

GSA Schedule
Contract GS-03F-5063C

UL N12911 CE FC

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
1310 SM	0-15	15
850 MM	0-8	0.75 (50u) 0.35 (62.5u)
850 MM Dual Optical Output Version	0-4	0.60 (50u) 0.30 (62.5u)

SM = Single Mode Fiber

MM = Multimode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor. See website for terms and conditions.

3G/HD/SD-SDI - AES/EBU Audio

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3360 3G/HD/SD-SDI & 4 Pairs of AES/EBU Digital Audio Series

Broadcast quality 3G/HD/SD-SDI & AES/EBU Digital Audio transmission over one single mode or
multimode fiber with full SMPTE compliance.

Ideal Applications:

Broadcast or corporate studios, OB Vans, Rental & Staging, auditoriums, stadiums and theaters, airport or transportation hubs, distance learning, surgical or medical imaging and more!

Box or Card
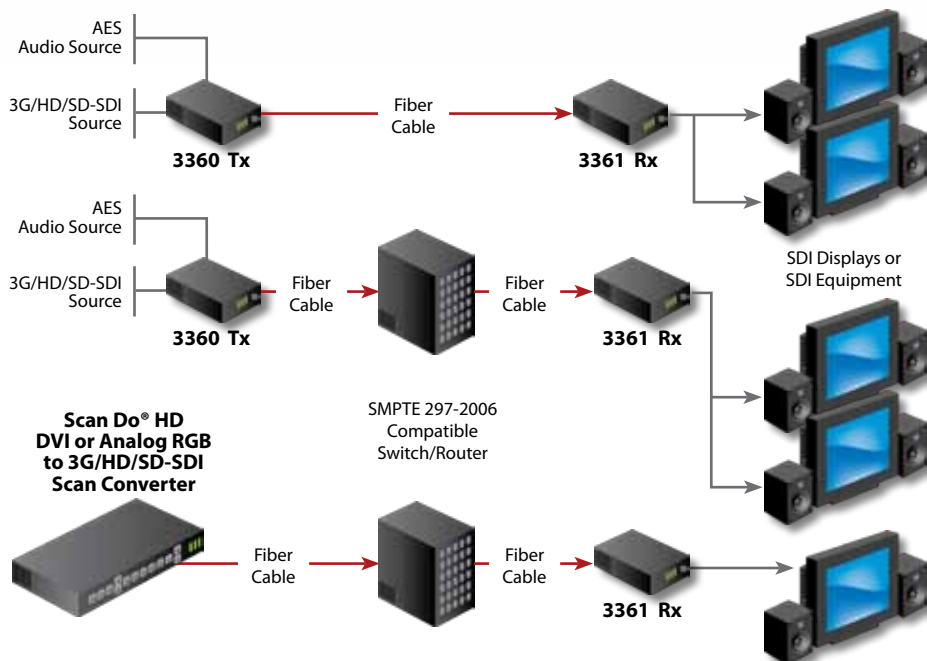
Signal	Channels	Direction
3G/HD/SD-SDI	1	→
AES/EBU	8 (4 Pairs)	→

Features

Inserts up to 8 channels (4 pairs) of AES/EBU digital audio

Automatic Sample Rate Conversion (SRC) of audio inputs

75 ohm, unbalanced BNC audio interface per AES3id and SMPTE 276M

Transmitter can pass existing embedded audio or insert audio on a pair by pair basis

Signal is equalized and re-clocked prior to fiber optic transmission

Receiver features a re-clocked SDI output

Designed for fiber optic interoperability with other SMPTE 297-2006 fiber optic compliant devices up to 2.97 Gbps

Immunity to pathological patterns over entire link budget and operating temperature range

Compliant with SMPTE 259M-2006, 292-2006, 424M-2006, 297-2006, 276M

Supports both Single Mode and Multimode (62.5u & 50u) fiber types

Supports 3G/HD/SD-SDI inputs with or without embedded audio and data

14 dB Optical Link Budget @ 2.97 Gbps

Wide operating temperature range: -10º C to +50º C

Available in Box and Card versions

AES Audio Source
3G/HD/SD-SDI Source
3360 Tx
Fiber Cable
3361 Rx

AES Audio Source
3G/HD/SD-SDI Source
3360 Tx
Fiber Cable
SMPTE 297-2006 Compatible Switch/Router
Fiber Cable
3361 Rx
SDI Displays or SDI Equipment

Scan Do® HD DVI or Analog RGB to 3G/HD/SD-SDI Scan Converter
Fiber Cable
Fiber Cable
3361 Rx

Ordering Information

Part Number	Description	Fiber Cores
3360-x7z	Transmitter	1
3361-x7z	Receiver	1
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:
NA - North America   AU - Australia   EU - Europe
JP - Japan   UK - United Kingdom

Part Number Suffix Codes:

x:	B	Box Version	*z:*	L	LC Connector
	C	Card Version		S	ST Connector

Sales

CSI Communications Specialties, Inc.

631-273-0404 | commspecial.com
info@commspecial.com

Fiberlink® 3360 Series General Specifications

Indicators	Power, Data Rate lock (3G, HD, SD) Alarm (card version only)
Box Version Dimensions	6.5 W x 1.15 H x 8 L (inches) 165 W x 29 H x 203 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Number of slots in 6000A Card Cage	2
Power	9-24 volts, AC or DC, 3360: 8 watts, 27.30 BTU/Hr 3361: 2.5 watts, 8.53 BTU/Hr
Operating Temperature	-10º C to +50º C

Fiberlink® 3360 Transmitter Specifications

Serial Video BNC Input

Number of Inputs	1
Data Rate Range	270 Mbps to 2.97 Gbps
Supported Standards	SMPTE 259M, 292, 297-2006, 424M-2006
Re-clocked Data Rates	270 Mbps (SMPTE 259M), 1.485 Gbps (SMPTE 292), 2.97 Gbps (SMPTE 494M)
Equalization	Automatic up to 100m of Belden 1694A at 3.0 Gbps, 200m at 1.485 Gbps and 350m at 270 Mbps
Return Loss	>10dB up to 2.97 Gbps

Optical Output

SMPTE 297-2006 Labeling	L-PC-ABCD-1310
Connector	LC receptacle, PC polish or ST
Wavelength	1310nm (nominal)
Emmiter Type	FP Laser
Output Power (nominal)	-3.5 dBm at 270 Mbps; -3.5 dBm at 1.485 Gbps; -3.5 dBm at 2.97 Gbps
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

Audio Specifications

Unbalanced, 75 ohms, BNC per AES3id and SMPTE 276M

Channels	8 (4pairs)
Embedding	Selectable per pair
Sample Rate Conversion (SRC)	32-96 kHz input range converted to 48 kHz
SDI pre-embedded audio	All channels supported for pass through. Pairs 1 to 4 may be stripped selectable for each pair

3360 3G/HD/SD-SDI & 4 Pairs of AES/EBU Digital Audio Series

Fiberlink® 3360 Transmitter

Front Panel LEDs quickly reveal the 3360's Video & Audio input status

Dip Switches allow for quick configuration of your audio embedding preferences

Front Panel Audio LEDs quickly reveal which pairs have audio present

The 3361 Receiver allows you to choose which audio pairs to de-embed or mute

Fiberlink® 3361 Receiver

The Fiberlink® 3360 Series is available in a card version that is compatible with the Fiberlink® 6000A Rackmountable Card Cage.

Fiberlink® 3361 Receiver Specifications

Fiber Optic Input

SMPTE 297-2006 Labeling	PC-ABCD-1310-1550
Connector	LC receptacle, PC polish or ST
Wavelength	1100 - 1620 nm
Minimum Input Sensitivity	-17 dBm at 2.97 Gbps; -22 dBm at 1.485 Gbps -24 dBm at 270 Mbps;
Maximum Input Power	0 dBm

Serial Video BNC Output

Number of Outputs	1
Signal Level	800mV ± 10%
DC Offset	0V ± 0.5V
Rise/Fall Time	< 135 ps at 2.97 Gbps per SMPTE 424M; < 270 ps at 1.485 Gbps per SMPTE 292; 0.4 ns to 1.5 ns at 270 Mbps per SMPTE 259M
Overshoot	< 10% of amplitude
Timing Jitter	< 0.2 UI at 270 Mbps; < 1.0 UI at 1.485 Gbps; < 2.0 UI at 2.97 Gbps with color bar signal
Alignment Jitter	< 0.2 UI at 270 Mbps; < 0.2 UI at 1.485 Gbps; < 0.3 UI at 2.97 Gbps with color bar signal
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

Audio Specifications

Unbalanced, 75 ohms, BNC per AES3id and SMPTE 276M

Channels	8 (4pairs)
Output mute	Each audio output pair may be muted on a selectable basis

Operating Loss Budget & Maximum Usable Distance*

Fiber Type	Loss(dB)	Data Rate	Distance
Single Mode	0-14	2.97 Gbps	30 km
	0-17	1.485 Gbps	48 km
	0-20	270 Mbps	50 km
Multimode (62.5u)	0-14	2.97 Gbps	.8 km
	0-17	1.485 Gbps	1 km
	0-20	270 Mbps	2.5 km
Multimode (50u)	0-14	2.97 Gbps	1 km
	0-17	1.485 Gbps	1.3 km
	0-20	270 Mbps	3 km

*Distance specifications are approximate, based upon connecting a 3360 Transmitter to a 3361 Receiver, and are not guaranteed. CSI cannot estimate or guarantee operating loss budgets when the 3360 Series is used with other, non-Fiberlink devices. Operating loss budget must not be exceeded.

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3360 3G/HD/SD-SDI & 4 Pairs of AES/EBU Digital Audio Series

Smart & Simple 3G/HD/SD-SDI Signal Routing with Fiberlink Matrix

Fiberlink®
3360 Transmitter

Fiberlink® Matrix
32x32 Optical Matrix
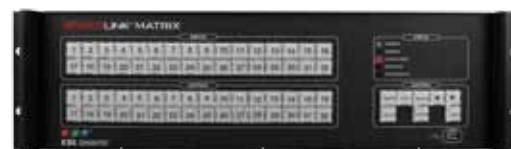
Fiberlink®
3361 Receiver

Fiberlink®
3361 Receiver

Fiberlink®
3361 Receiver

Learn more about the Fiberlink® Matrix at commspecial.com

Other 3G-SDI Products

Fiberlink Matrix
Fully configurable 32x32 Optical Matrix

Fiberlink 3350 3G/HD/SD-SDI Series
SMPTE compliant 3G/HD/SD-SDI over one single mode or multimode fiber optic core

Scan Do® HD
Computer Video to 3G/HD/SD-SDI Scan Converter

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3360 3G/HD/SD-SDI & 4 Pairs of AES/EBU Digital Audio Series

GSA Schedule Contract GS-03F-5063C

UL N12911 CE FC

Learn more about the industry's largest selection of fiber optic transmission products at commspecial.com

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor. See website for terms and conditions.

Sales

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Made in the USA

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3350 3G/HD/SD-SDI Series
Broadcast quality 3G/HD/SD-SDI Transmission over one single mode or multimode fiber with full SMPTE
compliance & embedded audio & data signal support.

Ideal Applications:

Broadcast or corporate studios, OB Vans, Rental & Staging, auditoriums, stadiums and theaters, airport or transportation hubs, distance learning, surgical or medical imaging and more!

Box or Card
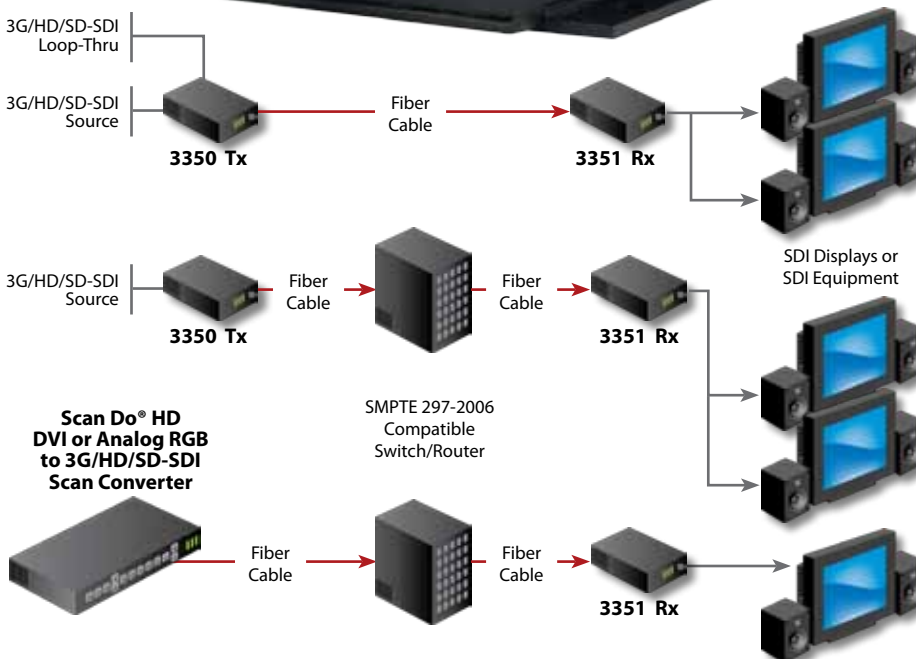
Signal	Channels	Direction
3G/HD/SD-SDI	1	→

Features

Signal is equalized and re-clocked prior to fiber optic transmission

Transmitter features a re-clocked SDI loop through

Receiver features two re-clocked SDI outputs

Designed for fiber optic interoperability with other SMPTE 297-2006 fiber optic compliant devices up to 2.97 Gbps

Immunity to pathological patterns over entire link budget and operating temperature range

Compliant with SMPTE 259M-2006, 292-2006, 424M-2006, 297-2006

Supports transmission of SMPTE 305M-2005, 310M-2004, 344M-2000, DVB-ASI

Supports both Single Mode and Multimode (62.5u & 50u) fiber types

Supports 3G/HD/SD-SDI inputs with or without embedded audio and data

14 dB Optical Link Budget @ 2.97 Gbps

Wide operating temperature range: -10° C to +50° C

Available in Box and Card versions

Card version compatible with the Fiberlink® 6000A Rack Card Cage

Designed and Manufactured in the USA by CSI

3G/HD/SD-SDI Loop-Thru

3G/HD/SD-SDI Source

3350 Tx

Fiber Cable

3351 Rx

SDI Displays or SDI Equipment

3G/HD/SD-SDI Source

3350 Tx

Fiber Cable

SMPTE 297-2006 Compatible Switch/Router

Fiber Cable

3351 Rx

Scan Do® HD DVI or Analog RGB to 3G/HD/SD-SDI Scan Converter

Fiber Cable

Fiber Cable

3351 Rx

Ordering Information

Part Number	Description	Fiber Cores
3350-x7z	Transmitter	1
3351-x7z	Receiver	1
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:
NA - North America AU - Australia EU - Europe
JP - Japan UK - United Kingdom

Part Number Suffix Codes:

x:	B	Box Version	*z:*	L	LC Connector
	C	Card Version		S	ST Connector

Fiberlink® 3350 Transmitter Specifications

Serial Video BNC Input

Number of Inputs	1
Data Rate Range	19.4 Mbps to 2.97 Gbps
Supported Standards	SMPTE 259M, 292, 297-2006, 424M-2006, 305M, 310M, 344M, DVB-ASI
Re-clocked Data Rates	270 Mbps (SMPTE 259M, DVB-ASI-270), 1.485 Gbps (SMPTE 292), 2.97 Gbps (SMPTE 494M)
Equalization	Automatic up to 100m of Belden 1694A at 3.0 Gbps, 200m at 1.485 Gbps and 350m at 270 Mbps
Return Loss	>10dB up to 2.97 Gbps

Serial Video BNC Loop-Through Output

Number of Loop-Throughs	1
Signal Level	800mV ± 10%
DC Offset	0V ± 0.5V
Rise/Fall Time	< 135 ps at 2.97 Gbps per SMPTE 424M; < 270 ps at 1.485 Gbps per SMPTE 292; 0.4 ns to 1.5 ns at 270 Mbps per SMPTE 259M
Overshoot	< 10% of amplitude
Timing Jitter	< 0.2 UI at 270 Mbps; < 1.0 UI at 1.485 Gbps; < 2.0 UI at 2.97 Gbps with color bar signal
Alignment Jitter	< 0.2 UI at 270 Mbps; < 0.2 UI at 1.485 Gbps; < 0.3 UI at 2.97 Gbps with color bar signal
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

Optical Output

SMPTE 297-2006 Labeling	L-PC-ABCD-1310
Connector	LC receptacle, PC polish or ST
Wavelength	1310nm (nominal)
Emmiter Type	FP Laser
Output Power (nominal)	-3.5 dBm at 270 Mbps; -3.5 dBm at1.485 Gbps; -3.5 dBm at 2.97 Gbps
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

Learn more about the industry's largest selection of fiber optic transmission products at commspecial.com

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3350 3G/HD/SD-SDI Series

**Fiberlink®
3350 Transmitter**

The 3350 Transmitter provides a convenient re-clocked and equalized 3G/HD/SD-SDI Loop-Through!

Universal Power Supply makes the 3350 Series compatible with any region!

Compact enclosure makes installation in tight or prohibitive spaces a snap!

The 3351 Receiver delivers pristine output with two re-clocked 3G/HD/SD-SDI outputs!

**Fiberlink®
3351 Receiver**

**The Fiberlink®
3350 Series is available in a card version that is compatible with the Fiberlink® 6000A Rackmountable Card Cage.**

Fiberlink® 3351 Receiver Specifications

Fiber Optic Input

SMPTE 297-2006 Labeling	PC-ABCD-1310-1550
Connector	LC receptacle, PC polish or ST
Wavelength	1100 - 1620 nm
Minimum Input Sensitivity	-17 dBm at 2.97 Gbps; -20 dBm at 1.485 Gbps -23 dBm at 270 Mbps;
Maximum Input Power	0 dBm

Serial Video BNC Outputs

Number of Outputs	2
Signal Level	800mV ± 10%
DC Offset	0V ± 0.5V
Rise/Fall Time	< 135 ps at 2.97 Gbps per SMPTE 424M; < 270 ps at 1.485 Gbps per SMPTE 292; 0.4 ns to 1.5 ns at 270 Mbps per SMPTE 259M
Overshoot	< 10% of amplitude
Timing Jitter	< 0.2 UI at 270 Mbps; < 1.0 UI at 1.485 Gbps; < 2.0 UI at 2.97 Gbps with color bar signal
Alignment Jitter	< 0.2 UI at 270 Mbps; < 0.2 UI at 1.485 Gbps; < 0.3 UI at 2.97 Gbps with color bar signal
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

Fiberlink® 3350 Series General Specifications

Indicators	Power, Data Rate lock (3G, HD, SD/DVB-ASI) Alarm (Card Version Only)
Box Version Dimensions	5.21 x 3.50 x 1.15 (in) 133 x 89 x 30 (mm)
Weight	6.9 ounces, 196 grams
Number of slots in 6000A Card Cage	1
Power	9-24 volts, AC or DC, 3350: 1.6 watts, 5.46 BTU/Hr 3351: 1.4 watts, 4.78 BTU/Hr
Operating Temperature	-10º C to +50º C

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FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3350 3G/HD/SD-SDI Series

Smart & Simple 3G/HD/SD-SDI Signal Routing with Fiberlink Matrix

Fiberlink®
3350 Transmitter

Fiberlink® Matrix
32x32 Optical Matrix
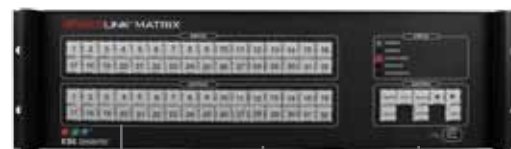
Fiberlink®
3351 Receiver

Fiberlink®
3351 Receiver

Fiberlink®
3351 Receiver

Learn more about the Fiberlink® Matrix at commspecial.com

Operating Loss Budget & Maximum Usable Distance*

Fiber Type	Loss(dB)	Data Rate	Distance
Single Mode	0-14	2.97 Gbps	30 km
	0-17	1.485 Gbps	48 km
	0-20	270 Mbps	50 km
Multimode (62.5u)	0-14	2.97 Gbps	.8 km
	0-17	1.485 Gbps	1 km
	0-20	270 Mbps	2.5 km
Multimode (50u)	0-14	2.97 Gbps	1 km
	0-17	1.485 Gbps	1.3 km
	0-20	270 Mbps	3 km

*Distance specifications are approximate, based upon connecting a 3350 Transmitter to a 3351 Receiver, and are not guaranteed. CSI cannot estimate or guarantee operating loss budgets when the 3350 Series is used with other, non-Fiberlink devices. Operating loss budget must not be exceeded.

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3350 3G/HD/SD-SDI Series

GSA Schedule Contract GS-03F-5063C

Other 3G-SDI Products

Fiberlink Matrix
Fully configurable 32x32 Optical Matrix

Fiberlink 3360 3G/HD/SD-SDI
& 4 Pairs of AES/EBU Digital Audio Series
SMPTE compliant 3G/HD/SD-SDI with 4 Pairs (8 Channels) of AES/EBU Digital Audio Embedding over one fiber

Scan Do® HD
Computer Video to 3G/HD/SD-SDI Scan Converter

Learn more about the industry's largest selection of fiber optic transmission products at commspecial.com

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3353 3G/HD/SD-SDI to HDMI Receiver

Broadcast quality 3G/HD/SD-SDI Transmission over one single mode or multimode fiber with full SMPTE compliance to HDMI baseband output.

Signal	Channels	Direction
3G/HD/SD-SDI to HDMI & Stereo Audio	1	→

Ideal Applications:

Confidence monitoring, broadcast or corporate studios, OB trucks, digital signage, rental and staging, auditoriums, stadiums and theaters, large venue projector installations, airport or transportation hubs, distance learning, surgical or medical imaging and more!

OPTICAL   HDMI   L   R

VIDEO OUT   AUDIO OUT

Features

Convert 3G/HD/SD-SDI with embedded audio to HDMI with audio pair selection

Supports all SD and HD resolutions to 1080p/60

Fully SMPTE 297-2006 compliant fiber input

HDMI embedded and stereo line level outputs (if audio present in SDI stream)

User selection from up to 8 audio channel pairs for multilingual or multimessage support

Automatic selection of output resolution - no scaling

Optional re-clocked SDI output

ST and LC fiber connector options

Small compact design

Compatible with Fiberlink 3350, 3360 & 3380 Series, Fiberlink Matrix and Scan Do® HD's optical output.

All Fiberlink® 3G/HD/SD-SDI products are compliant with SMPTE 297-2006 and has the ability to operate seamlessly with Fiberlink® Matrix and other SMPTE 297-2006 fiber optic compliant devices.

All Fiberlink® 3G/HD/SD-SDI products are immune to pathological signals over the entire budget link and operating temperature range and operate with both single mode and multimode fiber types.

3G/HD/SD-SDI Loop-Thru

3G/HD/SD-SDI Source

Fiber Cable

3350 Tx

3353 Rx

1080p Displays with HDMI input

Multichannel Audio

3G/HD/SD-SDI Source

Fiber Cable

3360 Tx

Fiberlink Matrix or SMPTE 297-2006 Compatible Switch/Router

Fiber Cable

Fiber Cable

3353 Rx

3353 Rx

1080p Displays with HDMI input

Scan Do® HD DVI or Analog RGB to 3G/HD/SD-SDI Scan Converter

Fiber Cable

Fiber Cable

3353 Rx

Ordering Information

Part Number	Description	Fiber Cores
3353-B7z	Receiver	1
3353-S-B7z	Receiver with optional SDI output	1
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:
NA - North America   AU - Australia   EU - Europe
JP - Japan   UK - United Kingdom

Part Number Suffix Codes:
z: L   LC Connector
     S   ST Connector

Sales

CSI Communications Specialties, Inc.

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Fiberlink® 3353 Receiver Specifications

Fiber Optic Input

SMPTE 297-2006 Labeling	PC-ABCD-1310-1550
Connector	LC receptacle, PC polish or ST
Wavelength	1100 - 1620 nm
Minimum Input Sensitivity	-17 dBm at 2.97 Gbps; -20 dBm at 1.485 Gbps -23 dBm at 270 Mbps;
Maximum Input Power	0 dBm

Video Output

Number of Outputs	1
Connector Type	HDMI Female
Signal Format	Single link HDMI with embedded audio, RGB or YCrCb as negotiated with display
Resolutions Supported	All 3G/HD/SD-SDI formats from standard definition to 1080p/60
SDI Output	Optional

Audio Output

Number of Audio Channels	2 channels, unbalanced, line level 2 channels embedded in HDMI signal
Audio Connector	RCA Jacks
Switches	Front panel selection of one of 8 audio channel pairs on SDI signal to output
NOTE:	Audio on HDMI and line level are available simultaneously and extracted from audio embedded within SDI signal in accordance with SMPTE standards.

Optional SDI Output

Signal Level	800mV ± 10%
DC Offset	0V ± 0.5V
Rise/Fall Time	< 135 ps at 2.97 Gbps per SMPTE 424M; < 270 ps at 1.485 Gbps per SMPTE 292; 0.4 ns to 1.5 ns at 270 Mbps per SMPTE 259M
Overshoot	< 10% of amplitude
Timing Jitter	< 0.2 UI at 270 Mbps; < 1.0 UI at 1.485 Gbps; < 2.0 UI at 2.97 Gbps with color bar signal
Alignment Jitter	< 0.2 UI at 270 Mbps; < 0.2 UI at 1.485 Gbps; < 0.3 UI at 2.97 Gbps with color bar signal
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

General Specifications

Indicators	Power, Alarm, Data Rate Lock (3G, HD, SD)
Box Version Dimensions	6.5 W x 1.15 H x 6 L (inches) 165 W x 29 H x 152 L (mm)
Weight	16 ounces, 453.5 grams
Power	9-24 volts, AC or DC,
Operating Temperature	-10º C to +50º C

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

**3353 3G/HD/SD-SDI
to HDMI Receiver**

GSA Schedule
Contract GS-03F-5063C

UL   N12911   CE   FC

Learn more about the industry's largest selection of fiber optic transmission products at commspecial.com

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
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Sales

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3355 3G/HD/SD-SDI to DVI Receiver
Broadcast quality 3G/HD/SD-SDI Transmission over one single mode or multimode fiber with full SMPTE compliance to DVI baseband output.

Ideal Applications:
Confidence monitoring, broadcast or corporate studios, OB trucks, digital signage, rental and staging, auditoriums, stadiums and theaters, large venue projector installations, airport or transportation hubs, distance learning, surgical or medical imaging and more!

Signal	Channels	Direction
3G/HD/SD-SDI to DVI & Stereo Audio	1	→
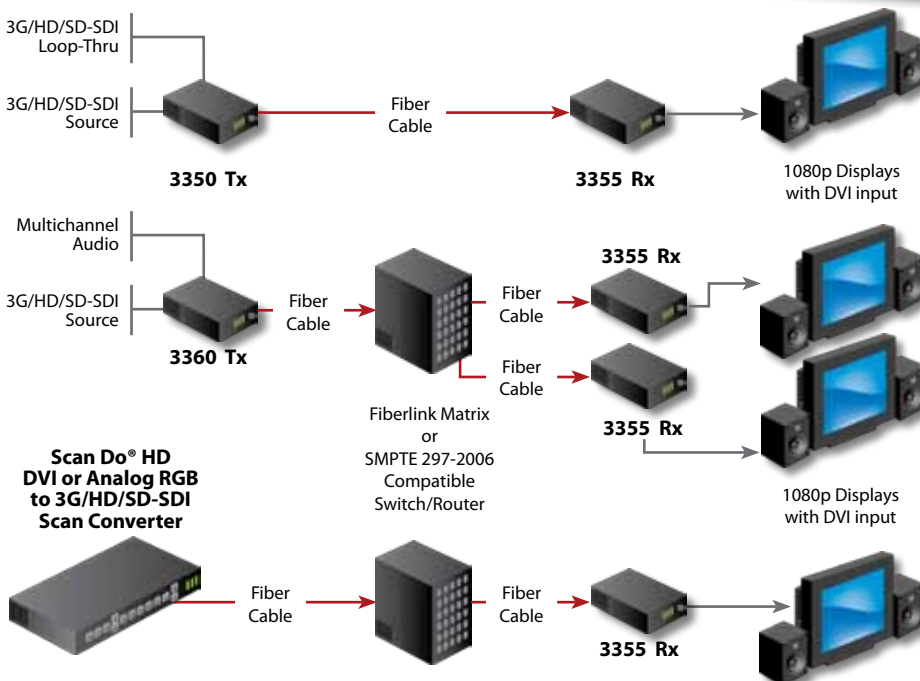
Convert 3G/HD/SD-SDI with embedded audio to DVI with audio pair selection

Supports all SD and HD resolutions to 1080p/60

Fully SMPTE 297-2006 compliant fiber input

Stereo line level outputs (if audio present in SDI stream)

User selection from up to 8 audio channel pairs for multilingual or multimessage support

Automatic selection of output resolution - no scaling

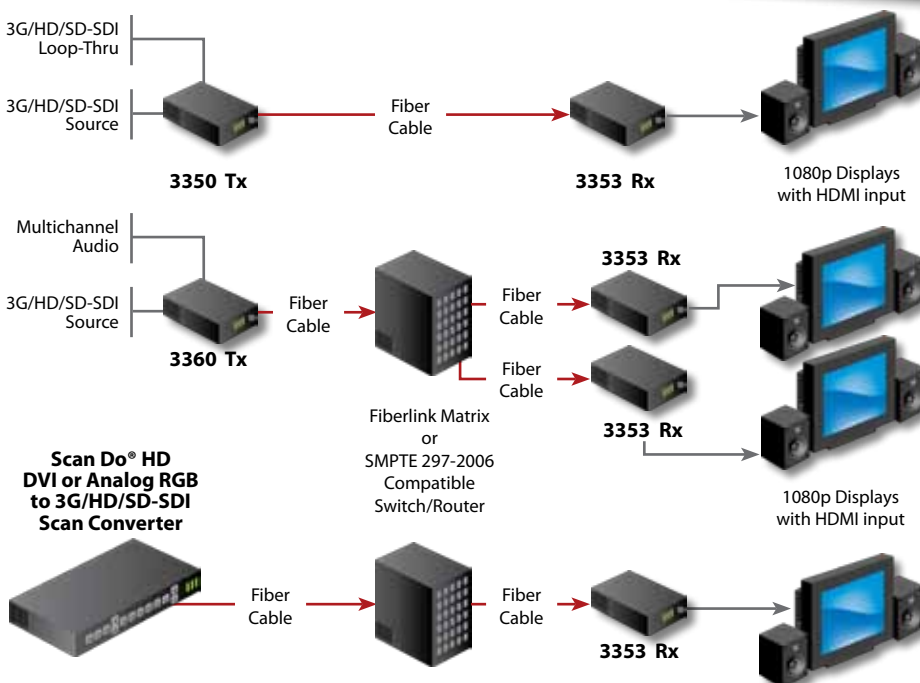Optional re-clocked SDI output

ST and LC fiber connector options

Small compact design

Compatible with Fiberlink 3350, 3360 & 3380 Series, Fiberlink Matrix and Scan Do® HD's optical output.

All Fiberlink® 3G/HD/SD-SDI products are compliant with SMPTE 297-2006 and has the ability to operate seamlessly with Fiberlink® Matrix and other SMPTE 297-2006 fiber optic compliant devices.

All Fiberlink® 3G/HD/SD-SDI products are immune to pathological signals over the entire budget link and operating temperature range and operate with both single mode and multimode fiber types.

Ordering Information

Part Number	Description	Fiber Cores
3355-B7z	Receiver	1
3355-S-B7z	Receiver with optional SDI output	1
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America	AU - Australia	EU - Europe
JP - Japan	UK - United Kingdom	

Part Number Suffix Codes:
- *z:* L   LC Connector
- S   ST Connector

Sales

CSI Communications Specialties, Inc.

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info@commspecial.com

Fiberlink® 3355 Receiver Specifications

Fiber Optic Input

SMPTE 297-2006 Labeling	PC-ABCD-1310-1550
Connector	LC receptacle, PC polish or ST
Wavelength	1100 - 1620 nm
Minimum Input Sensitivity	-17 dBm at 2.97 Gbps; -20 dBm at 1.485 Gbps -23 dBm at 270 Mbps;
Maximum Input Power	0 dBm

Video Output

Number of Outputs	1
Connector Type	DVI-I Female (Digital output only)
Signal Format	Single link DVI, RGB or YCrCb as negotiated with display
Resolutions Supported	All 3G/HD/SD-SDI formats from standard definition to 1080p/60
SDI Output	Optional

Audio Output

Number of Audio Channels	2 channels, unbalanced, line level 2 channels embedded in HDMI signal
Audio Connector	RCA Jacks
Switches	Front panel selection of one of 8 audio channel pairs on SDI signal to output
NOTE:	Audio on line level is extracted from audio embedded within SDI signal in accordance with SMPTE standards.

Optional SDI Output

Signal Level	800mV ± 10%
DC Offset	0V ± 0.5V
Rise/Fall Time	< 135 ps at 2.97 Gbps per SMPTE 424M; < 270 ps at 1.485 Gbps per SMPTE 292; 0.4 ns to 1.5 ns at 270 Mbps per SMPTE 259M
Overshoot	< 10% of amplitude
Timing Jitter	< 0.2 UI at 270 Mbps; < 1.0 UI at 1.485 Gbps; < 2.0 UI at 2.97 Gbps with color bar signal
Alignment Jitter	< 0.2 UI at 270 Mbps; < 0.2 UI at 1.485 Gbps; < 0.3 UI at 2.97 Gbps with color bar signal
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

General Specifications

Indicators	Power, Alarm, Data Rate Lock (3G, HD, SD)
Box Version Dimensions	6.5 W x 1.15 H x 6 L (inches) 165 W x 29 H x 152 L (mm)
Weight	16 ounces, 453.5 grams
Power	9-24 volts, AC or DC,
Operating Temperature	-10º C to +50º C

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

**3355 3G/HD/SD-SDI
to DVI Receiver**

GSA Schedule
Contract GS-03F-5063C

UL N12911 CE FC

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3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction
guarantee and a three-year limited
warranty on parts and labor.
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Sales

CSI Communications
Specialties, Inc.

**631-273-0404 | commspecial.com
info@commspecial.com**

Made in the USA

![FIBERLINK® VIDEO, AUDIO & DATA OVER FIBER]

3357 3G/HD/SD-SDI to VGA or Component Video Receiver

Broadcast quality 3G/HD/SD-SDI Transmission over one single mode or multimode fiber with full SMPTE compliance to VGA or Component Video output.

Ideal Applications:

Confidence monitoring, broadcast or corporate studios, OB trucks, digital signage, rental and staging, auditoriums, stadiums and theaters, large venue projector installations, airport or transportation hubs, distance learning, surgical or medical imaging and more!

Signal	Channels	Direction
3G/HD/SD-SDI to VGA or Component Video & Stereo Audio	1	→
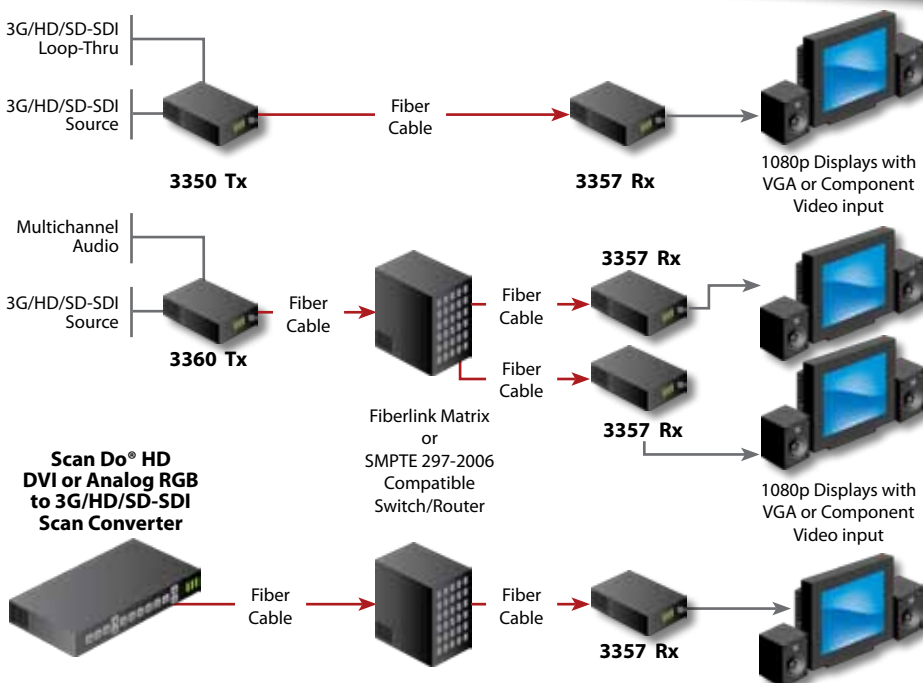
Convert 3G/HD/SD-SDI with embedded audio to VGA or Component Video with audio pair selection

Supports all SD and HD resolutions to 1080p/60

Fully SMPTE 297-2006 compliant fiber input

External switch sets VGA or Component Video modes of operation

Stereo line level outputs (if audio present in SDI stream)

User selection from up to 8 audio channel pairs for multilingual or multimessage support

Automatic selection of output resolution - no scaling

Optional re-clocked SDI output

ST and LC fiber connector options

Small compact design

Compatible with Fiberlink 3350, 3360 & 3380 Series, Fiberlink Matrix and Scan Do® HD's optical output.

All Fiberlink® 3G/HD/SD-SDI products are compliant with SMPTE 297-2006 and has the ability to operate seamlessly with Fiberlink® Matrix and other SMPTE 297-2006 fiber optic compliant devices.

All Fiberlink® 3G/HD/SD-SDI products are immune to pathological signals over the entire budget link and operating temperature range and operate with both single mode and multimode fiber types.

Ordering Information

Part Number	Description	Fiber Cores
3357-B7z	Receiver	1
3357-S-B7z	Receiver with optional SDI output	1
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America	AU - Australia	EU - Europe
JP - Japan	UK - United Kingdom	

Part Number Suffix Codes:

z: L LC Connector
　　 S ST Connector

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Fiberlink® 3357 Receiver Specifications

Fiber Optic Input

SMPTE 297-2006 Labeling	PC-ABCD-1310-1550
Connector	LC receptacle, PC polish or ST
Wavelength	1100 - 1620 nm
Minimum Input Sensitivity	-17 dBm at 2.97 Gbps; -20 dBm at 1.485 Gbps -23 dBm at 270 Mbps;
Maximum Input Power	0 dBm

Video Output

Number of Outputs	1
Connector Type	DB-15 Female
Signal Format	RGB or YCrCb as set by switch
Resolutions Supported	All 3G/HD/SD-SDI formats from standard definition to 1080p/60
SDI Output	Optional

Audio Output

Number of Audio Channels	2 channels, unbalanced, line level 2 channels embedded in HDMI signal
Audio Connector	RCA Jacks
Switches	Front panel selection of one of 8 audio channel pairs on SDI signal to output Rear panel switch to ser VGA or YCrCb output format
NOTE:	Audio on line level is extracted from audio embedded within SDI signal in accordance with SMPTE standards.

Optional SDI Output

Signal Level	800mV ± 10%
DC Offset	0V ± 0.5V
Rise/Fall Time	< 135 ps at 2.97 Gbps per SMPTE 424M; < 270 ps at 1.485 Gbps per SMPTE 292; 0.4 ns to 1.5 ns at 270 Mbps per SMPTE 259M
Overshoot	< 10% of amplitude
Timing Jitter	< 0.2 UI at 270 Mbps; < 1.0 UI at 1.485 Gbps; < 2.0 UI at 2.97 Gbps with color bar signal
Alignment Jitter	< 0.2 UI at 270 Mbps; < 0.2 UI at 1.485 Gbps; < 0.3 UI at 2.97 Gbps with color bar signal
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

General Specifications

Indicators	Power, Alarm, Data Rate Lock (3G, HD, SD)
Box Version Dimensions	6.5 W x 1.15 H x 6 L (inches) 165 W x 29 H x 152 L (mm)
Weight	16 ounces, 453.5 grams
Power	9-24 volts, AC or DC,
Operating Temperature	-10º C to +50º C

3357 3G/HD/SD-SDI to VGA or Component Video Receiver

GSA Schedule Contract GS-03F-5063C

Learn more about the industry's largest selection of fiber optic transmission products at commspecial.com

3 YEAR LIMITED WARRANTY

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Video, Audio and Two Way Data

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

Flex System
Any combination of video, audio, data and contact closure signals, transmitted digitally in one or both directions, over one or two fibers

Ideal Applications:
Broadcast, Cable, Satellite, Industrial Security

Box or Card

Signal	Channels	Direction
Video	1	⟷ or →
Audio	2 or 4	⟷ or →
Data or Contact	1 or 2	⟷ or →

Amplifier

Video

Audio

Audio

Video

Audio

Video

Flex Xcvr

Flex Xcvr

RS-232 (PTZ)

RS-232 (PTZ)

Transmitter, receiver and transceiver units must each be ordered separately. Use the Part Number Configuration Chart to generate a specific part number for each unit.

In addition, each box unit requires an external power supply. Power supplies should be specified as follows:

Power Supply:
PDPS-1-pp

Power Supply Suffix Codes: (Line Cord)	
pp:	
NA	North America
AU	Australia
EU	Europe
JP	Japan
UK	United Kingdom

Flex System Configuration Example

F1T=Transmitter   F1R=Receiver   F1X=Transceiver

1 2 3 4   5 6 7   A B

F1T
F1R - ☐ ☐ ☐ ☐ - ☐ ☐ ☐ - ☐ ☐
F1X

1. # of Fibers
1 = 1 fiber
2 = 2 fibers
Note: 2 fiber systems may only be ordered for 2-way systems. These systems always begin with "F1X."

2. Case Style
B = Box (stand alone)
C = Rack Card Module
Note: Card fits within 6000A Card Cage.

3. Operating Wavelength
For one-way systems, or two-way/two-fiber system:
1 = 850 nm, MM
3 = 1310 nm, MM
7 = 1310 nm, SM
9 = 1550 nm, SM
For two-way/one-fiber systems. Must be ordered as 2&4 or 6&8 pair:
2 = 850/1310 nm, MM
4 = 1310/850 nm, MM
6 = 1310/1550 nm, SM
8 = 1550/1310 nm, SM

4. Fiber Optic Connectors
F = FCPC
S = ST

5. Video Options
0 = None
(F1T or F1X)
1 = Transmit
(F1R or F1X)
2 = Receive
(F1X)
3 = Transmit and Receive

6. Audio Options
0 = None
For F1T or F1X systems:
1 = 2 Channel Transmit
2 = 4 Channel Transmit
For F1R or F1X systems:
3 = 2 Channel Receive
4 = 4 Channel Receive
For F1X systems:
5 = 2 Channel Transmit (Ch. 1&2) and 2 Channel Receive (Ch. 3&4)
6 = 2 Channel Receive (Ch. 1&2) and 2 Channel Transmit (Ch. 3&4)

7. Audio Strapping
N = No Audio
B = Balanced
U = Unbalanced

Data Slots A & B
(Both slots require a #)
0 = None
1 = RS-232
(4-wire point-to-point)
2 = RS-422/485
(2-wire)
3 = RS-485
(4-wire multidrop)
4 = RS-485
5 = Contact Closure

Convenient, interactive Part Number Configuration software is available on our website.

Features

Each unit is custom-ordered and assembled.

Each transmitter, receiver and transceiver unit is sold separately. Power supplies are also sold separately.

Signal options include:
One channel of video in one or both directions

Two or four independent audio channels; four in one direction or two in each direction

Two slots for either data or contact closure signals in one or both directions

Transmits over multimode or single mode fiber at 850, 1310 or 1550 nm

Bi-directional systems available in one or two-fiber versions

Pure digital processing and transmission

Video channel is compatible with NTSC, PAL or SECAM video standards

Audio channels may be user-configured independently to have either balanced or unbalanced inputs and outputs

Indicator LEDs monitor signals and power

Wide range power supply allows operation from low voltage AC and DC sources

Card version fills two slots in 6000A rack

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Video Specifications

Number of Channels	1, one-way or bidirectional
Frequency Response	20 Hz to 8 MHz (+0, -3 dB) 50 Hz to 5 MHz (+/- 0.2 dB)
Input/Output Impedance	75 Ohms
Input/Output Voltage:	1 V p-p nom., 1.3 V p-p max.
Signal-to-Noise Ratio	60 dB (CCIR weighted)
Differential Gain and Phase	1% typical; 1° typical
Video Connectors	BNC

Audio Specifications

Number of Audio Channels	2 or 4 one-way or 2 bidirectional (balanced or unbalanced)
Frequency Response	20 Hz to 20 kHz (+0, -3 dB)
Input/Output Impedance	600 Ohms terminated; >24 k Ohms unterminated
Input/Output Voltage	0 dBu nom. +10 dBu max.
Signal-to-Noise Ratio	85 dB
THD+N	0.1% typical
Audio Connectors	Removeable terminal block

Data/PTZ and Contact Closure Specifications

Number of Channels	2, which may be used for 2 data channels, 2 contact closure channels, or one of each
Data Protocols Supported	RS-232, RS-422, RS-485 (2 or 4-wire)
Data Rate	DC to 115 kb/s
Contact Closure Input	Dry contact or TTL level referenced to GND
Contact Closure Output	Isolated reed relay contacts; 115 Volts AC; 50/60 Hz @ 0.2 A or 24 Volts DC @ 1 A
Data and Contact Closure Connectors	Removeable terminal block

General Specifications

LED Indicators	Power; Signal Present (Link); Alarm LED (card version only)
Power Requirements*	9-24 volts AC or DC, 6 watts
Operating Temperature Range	-35° to +75°C
Optical Connectors	ST or FCPC
Physical Size	5.1 W x 1.25 H x 7.25 L (inches) 127 W x 32 H x 184 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots Filled in 6000A Card Cage	2

* For operation from 95-250VAC, 50/60Hz, a PDPS-1 plug-in adapter is required.

FIBERLINK
VIDEO, AUDIO & DATA OVER FIBER

Flex System

GSA Schedule Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
2-way over 2 fibers and 1-way systems		
850 MM	0-15	0-3
1310 MM	0-12	0-11
1310 SM	0-28	0-70
1550 SM	0-26	0-85
2-way over 1 fiber systems		
850/1310 MM	0-11	0-3
1310/850 MM	0-11	0-3
1310/1550 SM	0-25	0-60
1550/1310 SM	0-25	0-60

SM = Single Mode Fiber
MM = MultiMode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

3 YEAR LIMITED WARRANTY

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Made in the USA

Video and Two Way Data

![FIBERLINK® VIDEO, AUDIO & DATA OVER FIBER]

3334 Video Multiplexer Series with Two-Way Data

10 Channel Composite Video Multiplexer with bi-directional data over one single mode or multimode fiber

Ideal Applications:

Security, Remote Monitoring, Command and Control Centers

Signal	Channels	Direction
Video	10	→
Data	1	⟷

Cameras (up to 10)

Monitors (up to 10)

10 Channel Tx

10 Channel Rx

Video & Data →
← Data

PTZ Controller
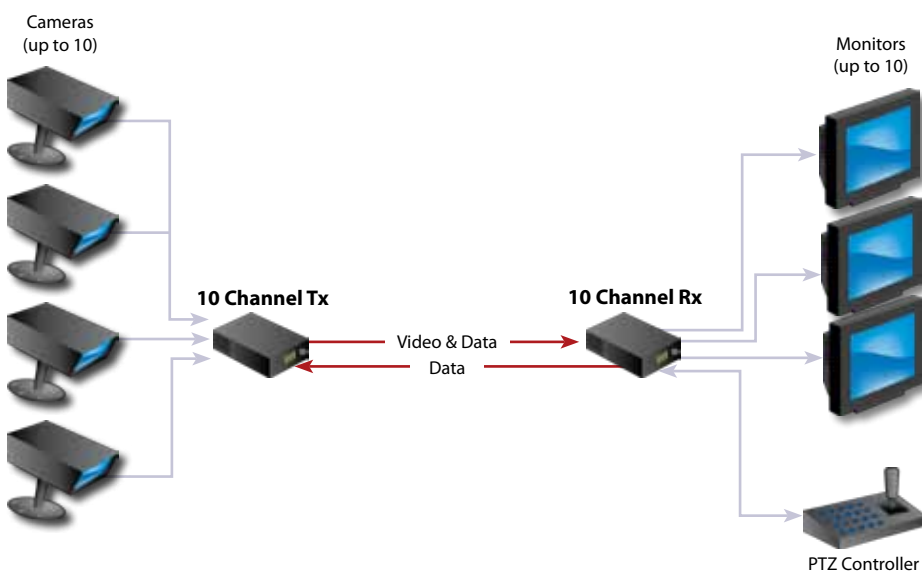
Features

Multiplexes up to 10 composite video signals on one fiber

Supports one bi-directional data channel for RS-232, RS-424 or RS-485

Versions for multimode or single mode fiber

No adjustments; pure digital processing and transmission

Full color, uncompressed, real-time transmission in NTSC, PAL or SECAM

Built-in diagnostic LEDs for each channel and a loss of signal/broken fiber alarm

Internal, universal power supply with AC line cord

One rack unit high (1.75 inches). Rackmount ears included with unit

Ordering Information

Part Number	Description	Fiber Cores
3334-Sy-pp	Transmitter	1
3335-Sy-pp	Receiver	1

Part Number Suffix Codes:

y: 7 - Single Mode
5 - Multimode

pp: NA - North America   AU - Australia   EU - Europe
JP - Japan   UK - United Kingdom

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Video Specifications

Number of Channels	10
Number of Fibers	1
Video Bandwidth (all channels at rated distance)	10 Hz - 6.5 MHz (-3 dB)
Video Input	1 volt p-p
Input/Outut Impedance	75 Ohms
Differential Gain	<1.5% typical
Differential Phase	<1 degree typical
Signal-to-Noise Ratio	>63 dB (CCIR weighting)
Video Connectors	BNC

Data Specifications

Number of Channels	1 (bi-directional)
Interfaces Supported	RS-232, RS-424, RS-485 2 Wire & 4 Wire Switch Selectable
Maximum Data Rate	100 Kbps
Protocols	NRZ, NRZI, RZ, Manchester, Bi-phase
Data Connectors	Screw Terminal Block

General Specifications

Operating Wavelength	Video & Data: 1310 nm Return Data (SM): 1550nm Return Data (MM): 850nm
Optical Connectors	ST
Operating Temperature	0 to +55 degrees C
Relative Humidity	10% - 90% (non-condensing)
Operating Power	95-250 VAC, 47-63 Hz
Size	1.75 H x 16.75 W x 10 D (inches) 44 H x 425 W x 254 D (mm)
Weight	Approx. 5.5 lbs; 2.5 kg
Fiberlink Matrix Compatibe	No

FIBERLINK
VIDEO, AUDIO & DATA OVER FIBER

3334 Video Multiplexer Series with 2-Way Data

GSA Schedule
Contract GS-03F-5063C
UL N12911 CE FC

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)**	Distance (km)
SM	0-18	50
MM (50u)	0-14	1.3
MM (62.5u)	0-18	1.0

SM = Single Mode Fiber
MM = MultiMode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3800 Composite Video Series
Composite video and bidirectional data transmitted digitally over one or two fibers

Ideal Applications:
Security, Casinos

Box or Card

Signal	Channels	Direction
Video	1	→
Data	1	↔

3810 Tx

Fiber Cable

3811 Rx

Monitors

PTZ Mounted Camera

PTZ Controller

Features

Transmits over multimode or single mode fiber at 850, 1310 or 1550 nm using one or two fibers

No adjustments; pure digital processing and transmission

8 MHz video bandwidth

Video channel is compatible with NTSC, PAL or SECAM video standards

Bidirectional data channel supports RS-232, RS-422 and RS-485 protocols for use with most PTZ systems. Transmitter and receiver may be configured differently

Built-in diagnostic LEDs for video signal, data signal and power

Wide range power supply allows operation from low voltage AC and DC sources

System consists of transmitter and receiver unit; card or box version. Each end, plus power supply, must be purchased separately

Card version fills one slot in 6000A card cage

Ordering Information

Part Number	Description	Fiber Cores
3810-Bxy	Transmitter, Box Version	1
3810-Cxy	Transmitter, Card Version	1
3811-Bxy	Receiver, Box Version	1
3811-Cxy	Receiver, Card Version	1
3820-Bxy	Transmitter, Box Version	2
3820-Cxy	Transmitter, Card Version	2
3821-Bxy	Receiver, Box Version	2
3821-Cxy	Receiver, Card Version	2
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
JP - Japan
AU - Australia
UK - United Kingdom
EU - Europe

Part Number Suffix Codes:

x: 1   850 nm Multimode
3   1310 nm Multimode
7   1310 nm Single Mode
9   1550 nm Single Mode

y: S   ST Connector
F   FCPC Connector

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Video Specifications

Frequency Response	8 MHz (-3 dB)
Input/Output Impedance	75 Ohms
Normal Input/Output Voltage	1V p-p nom., 1.1V p-p max.
Differential Gain	1.5 %
Differential Phase	1.0° typical
Signal-to-Noise Ratio	60 dB CCIR weighted typical
Video Connectors	BNC

Data Specifications

Data Bandwidth	115 Kb/sec, max.
Control Format	RS-232, RS-422, RS-485 (2-wire and 4-wire), switch selectable
Protocols	NRZ, NRZI, RZ, Manchester, Bi-phase
Data Connectors	Terminal Block

General Specifications

Operating Wavelength	850, 1310 and 1550 nm
Number of Fibers	1 or 2
Signal Connectors	Optical: ST and FCPC;
Operating Temperature	-35° to +74° C
Relative Humidity	10% - 90% (non-condensing)
Operating Power*	9-24 volts AC or DC, 5 watts
Physical Size	1.2 H x 5 W x 7 D (inches) 30 H x 127 W x 178 D (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots Filled in 6000A Card Cage	1

* For operation from 95-250VAC, 50/60Hz, a PDPS-1 plug-in adapter is required

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3800 Composite Video Series

GSA Schedule Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
One Fiber Version		
1310 MM	0-10	0-4
1310 SM	0-19	0-45
1550 SM	11-26	40-65
Two Fiber Version		
850 MM	0-16	0-2
1310 MM	0-15	0-15
1310 SM	0-20	0-50
1550 SM	11-28	35-90

sm = Single Mode Fiber
mm = MultiMode Fiber

* Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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Video and Audio

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7820 HD/SD Component, S-Video, Composite Video Series

HD/SD Component video with stereo audio, or S-Video and Composite video with stereo audio, or three channels of Composite Video with stereo audio

Ideal Applications:
Videoconferencing, Broadcast and Cable TV, Digital Signage

One unit, three modes of operation!
Over one single mode or multimode fiber, you can transmit:
- One Component Video & Stereo Audio
- One S-Video, one Composite Video and Stereo Audio
- Three Composite Video & Stereo Audio

Supports HDTV Resolutions!

Box or Card

Signal	Channels	Direction
Video	1 to 3	→
Audio	2	→

Features

30 MHz Component Video bandwidth

15 MHz Composite and S-Video bandwidth per channel

Supports 1080i and 720p Component Video

Video channel is compatible with NTSC, PAL or SECAM video standards

Two audio channels that may be user-configured for balanced or unbalanced inputs and outputs

Switch selectable audio output gain boost of +0 dB or +6 dB

Indicator LEDs monitor power, video and audio signals

Transmits over one multimode or single mode fiber

No adjustments; pure digital processing and transmission

Wide range power supply allows operation from both AC and DC sources

System consists of transmitter and receiver unit; card or box version. Each end, plus power supply, must be purchased separately.

Card version fills two slots in 6000A card cage

Component, S-Video, Composite Video — **7820 Tx** — Fiber Cable → **7821 Rx** — Component, S-Video, Composite Video

2 channels of Audio → 2 channels of Audio

Ordering Information

Part Number	Description	Fiber Cores
7820-B7S	Transmitter, Box Version	1
7820-C7S	Transmitter, Card Version	1
7821-B7S	Receiver, Box Version	1
7821-C7S	Receiver, Card Version	1
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America	AU - Australia	EU - Europe
JP - Japan	UK - United Kingdom	

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Video Specifications

Frequency Response Composite & S-Video: Component Video:	15 MHz (-3 dB) Y: 30 MHz (-3dB) PrPb: 15 MHz (-3dB)
Input/Output Impedance	75 Ohms, nominal
Signal-to-Noise Ratio	60 dB (CCIR weighted)
Differential Gain	0.7%
Differential Phase	0.5°
Y/C Delay	< 5 ns
2T K-Factor	0.5%
System Gain	Unity Gain, ± 3%
Video Connectors	BNC; 4-Pin Mini-DIN for S-Video

Audio Specifications

Number of Audio Channels	2, balanced or unbalanced
Bits per sample/ Sampling Rate	24 bits, 64 kHz
Audio Connector	Screw terminal block
Switches	• Select input termination • Balanced or unbalanced input/output, selectable on a per-channel basis • Output gain boost +0 dB or +6 dB
Frequency Response	+0/-0.5 dB, 20 Hz - 20 kHz
Maximum Audio Level	+10 dBu
Signal-to-Noise Ratio (A-weighted)	95 dB referenced full scale (balanced)
THD	0.002%, 20Hz - 20 kHz, full scale
Channel Phase Differential	±0.1°
Crosstalk	-100 dB (1kHz)
Audio Noise Level	-85 dBm
System Gain	Unity Gain, ±3%, input: balanced 600 ohms, 50 ohms source impedance ; output: balanced into 600 ohms, gain boost 0 dB.
Receiver Output Gain	+0 dB or +6 dB; switch selectable
Input Impedance	600 Ohms terminated, >24K ohms unterminated
Output Impedance	50 Ohms nominal
Audio to Video Diff. Delay (skew)	<300 usec

General Specifications

Three modes of transmit operation:	One Component Video & Stereo Audio One S-Video, one Composite Video and Stereo Audio Three Composite Video & Stereo Audio
Compatibility	Fiberlink Matrix
LED Indicators	(1) Power, (3) Video, (1) Audio, (1) Alarm LED (card version only)
Power	9-24 volts AC or DC, TX: 4.5 Watts; 15.39 BTU/Hr RX: 4.0 Watts; 13.68 BTU/Hr
Operating Temperature Range	-10° to +60° C
Optical Connectors	ST
Operating Wavelength	1310nm
Physical Size	6.5 W x 1.15 H x 8 L (inches) 165 W x 29 H x 203 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots Filled in 6000A Card Cage	2

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7820 Series HD/SD Component, S-Video, Composite Video

GSA Schedule Contract GS-03F-5063C
UL N12911 CE FC

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
SM	0-17	40
MM (50u)	0-17	1.3
MM (62.5u)	0-17	1.0

SM = Single Mode Fiber
MM = MultiMode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3620A Composite Video Series
Composite video and two audio channels transmitted digitally over one single mode or multimode fiber

Ideal Applications:
Videoconferencing, Broadcast and Cable TV, Digital Signage

Signal	Channels	Direction
Video	1	→
Audio	2	→

Box or Card

Features

10 MHz video bandwidth

Video channel is compatible with NTSC, PAL or SECAM video standards

Two audio channels that may be user-configured for balanced or unbalanced inputs and outputs

Switch selectable audio output gain boost of +0 dB or +6 dB

Indicator LEDs monitor power, video and audio signals

Transmits over one multimode or single mode fiber

No adjustments; pure digital processing and transmission

Wide range power supply allows operation from both AC and DC sources

System consists of transmitter and receiver unit; card or box version. Each end, plus power supply, must be purchased separately.

Card version fills one slot in 6000A card cage

Composite Video → **3620A Tx** → Fiber Cable → **3621A Rx** → Composite Video

2 channels of Audio → → 2 channels of Audio
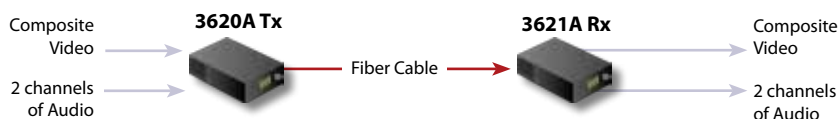
Ordering Information

Part Number	Description	Fiber Cores
3620A-B7S	Transmitter, Box Version	1
3620A-C7S	Transmitter, Card Version	1
3621A-B7S	Receiver, Box Version	1
3621A-C7S	Receiver, Card Version	1
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
JP - Japan
AU - Australia
UK - United Kingdom
EU - Europe

Video Specifications

Frequency Response	10 MHz (-3 dB), ±0.2 dB to 5 MHz
Input/Output Impedance	75 Ohms, nominal
Signal-to-Noise Ratio	60 dB (CCIR weighted)
Differential Gain	0.5%
Differential Phase	0.5°
Y/C Delay	< 10 ns
2T K-Factor	0.5%
System Gain	Unity Gain, ± 3%
Video Connector	BNC

Audio Specifications

Number of Audio Channels	2, balanced or unbalanced
Bits per sample/ Sampling Rate	24 bits, 52 kHz
Audio Connector	Screw terminal block
Switches	• Select input termination • Balanced or unbalanced input/output, selectable on a per-channel basis • Output gain boost +0 dB or +6 dB
Frequency Response	+0/-0.5 dB, 20 Hz - 20 kHz
Maximum Audio Level	+10 dBu
Signal-to-Noise Ratio (A-weighted)	95 dB referenced full scale (balanced)
THD	0.002%, 20Hz - 20 kHz, full scale
Channel Phase Differential	±0.1°
Crosstalk	-100 dB (1kHz)
Audio Noise Level	-85 dBm
System Gain	Unity Gain, ±3%, input: balanced 600 ohms, 50 ohms source impedance ; output: balanced into 600 ohms, gain boost 0 dB.
Receiver Output Gain	+0 dB or +6 dB; switch selectable
Input Impedance	600 Ohms terminated, >24K ohms unterminated
Output Impedance	50 Ohms nominal
Audio to Video Diff. Delay (skew)	<300 usec

General Specifications

Compatibility	Fiberlink Matrix & 3620A Series
LED Indicators	Power, Video, Audio, Alarm LED (card version only)
Power	9-24 volts AC or DC, 3.5 watts 11.94 BTU/Hr (Transmitter or Receiver)
Operating Temperature Range	-10° to +60° C
Optical Connectors	ST
Operating Wavelength	1310nm
Physical Size	5 W x 1.15 H x 5.25 L (inches) 127 W x 29 H x 133 L (mm)
Weight	approx. 10 oz.; 0.284 kg
Slots Filled in 6000A Card Cage	1

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3620A Composite Video Series

GSA Schedule Contract GS-03F-5063C UL N12911 CE FC

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
SM	0-17	40
MM (50u)	0-20	7.5
MM (62.5u)	0-20	5

SM = Single Mode Fiber
MM = MultiMode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

Want to learn more about fiber?

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Sales

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Made in the USA

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7140 Video Series
Four uncompressed video channels
and eight independent audio channels
all transmitted digitally over a single fiber

Ideal Applications:
Multi Camera Classrooms, Distance Learning / Videoconferencing
Broadcast

Signal	Channels	Direction
Video	4	⟶
Audio	8	⟶

DVD Players

7140 Transmitter

Fiber Optic Cable

7141 Receiver

Satellite Box

Video Camera with Audio

Monitor

Video Projectors

Monitor
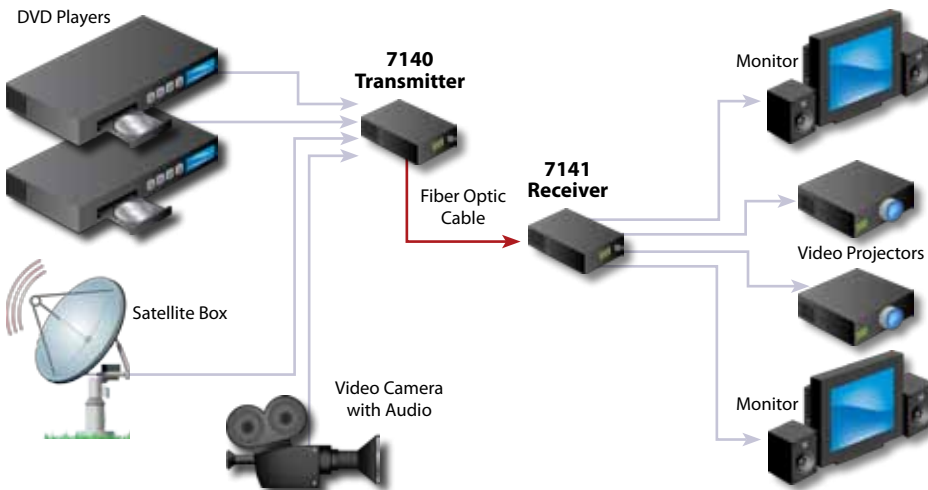
Features

Transmits over multimode or single mode fiber at 850, 1310 or 1550 nm

System consists of transmitter and receiver unit

No adjustments; pure digital processing and transmission

7 MHz video bandwidth

Video channel is compatible with NTSC, PAL or SECAM video standards

18-bit audio sampling; 20 Hz to 20 kHz audio bandwidth

Audio channels may be configured independently by the user to have either balanced or unbalanced inputs and outputs

Indicator LEDs monitor video signals, audio signals and power

Universal input internal power supply

Unit stands 1 RU high. Rackmount ears are included

Ordering Information

Part Number	Description	Fiber Cores
7140-xy-pp	Transmitter	1
7141-xy-pp	Receiver	1

Part Number Suffix Codes:

x:
- 1 850 nm Multimode
- 3 1310 nm Multimode
- 7 1310 nm Single Mode
- 9 1550 nm Single Mode

y:
- S ST Connector
- F FCPC Connector

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
JP - Japan
AU - Australia
UK - United Kingdom
EU - Europe

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Video Specifications

Number of channels	4
Video Bandwidth (per channel)	7 MHz (-3 dB)
Input/Output Impedance	75 Ohms
Normal Input/Output Voltage	1V p-p nom., 1.1V p-p max.
Differential Gain	1%
Differential Phase	0.5 degree typical
Signal-to-Noise Ratio	62 dB CCIR weighted typical
Video Connectors	BNC

Audio Specifications

Number of channels	8, balanced or unbalanced
Frequency Response (per channel)	20 Hz to 20 kHz (-3 dB)
Input Impedance	600 Ohms terminated; >24 k Ohms unterminated
Output Impedance	50 Ohms
Normal Input/Output Voltage	0 dBu nom., +10 dBu max.
Signal-to-Noise Ratio	85 dB
THD+N	0.1% typical
Audio Connectors	Screw terminal block
Switches	Dip switches to select input termination, balanced or unbalanced input/output. Selectable on a per-channel basis

General Specifications

LED Indicators	Power; Video Present (per channel); Audio Present (per channel)
Power Requirements*	95-250 volts AC, 47-63 Hz
Operating Temperature Range	0° to +55° C
Optical Connectors	ST or FCPC
Operating Wavelength	850, 1310 or 1550 nm
Physical Size	1.75 H x 16.75 W x 10 D (inches) 44 H x 425 W x 254 D (mm)
Weight	5lbs; 2.2kg

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7140 Video Series

GSA Schedule Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
850 MM	0-20	0-.75
1310 MM	0-25	0-2
1310 SM	0-23	0-55
1550 SM	0-25	0-80

SM = Single Mode Fiber
MM = MultiMode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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Made in the USA

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7130 Wideband Video Series

15 MHz wideband video with
four independent audio channels,
digitally transmitted over one fiber

Ideal Applications:

Broadcast Studios, OB Vans, Video Conferencing,
Digital Signage, Distance Learning and Sports Arenas.

Box
or
Card

Signal	Channels	Direction
Wideband Video	1	→
Audio	4	→

Features

Transmits over one multimode
or single mode fiber at 850, 1310
or 1550 nm

Pure digital processing
and transmission

10-bit video sampling; 15 MHz
video bandwidth; broadcast quality

Video channel is compatible
with NTSC, PAL or SECAM video
standards

24-bit audio sampling @ 62.5 kHz;
20 Hz to 20 kHz audio bandwidth

Audio channels may be configured
independently by the user to have
either balanced or unbalanced inputs
and outputs

Indicator LEDs monitor signals
and power

Wide range power supply allows
operation from low voltage AC
and DC sources

System consists of transmitter and
receiver unit; card or box version.
Each end, plus power supply,
must be purchased separately.

Card version fills one slot in the
6000A card cage

Program Video
Program Audio 1
Program Audio 2
Program Audio 3
Program Audio 4

7130 Tx

Fiber Cable

7131 Rx

Program Video
Program Audio 1
Program Audio 2
Program Audio 3
Program Audio 4
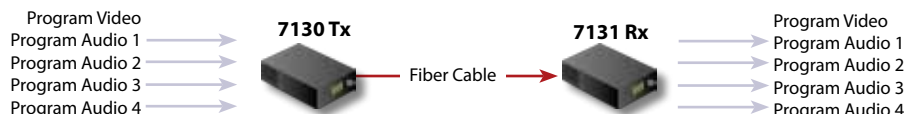
Ordering Information

Part Number	Description	Fiber Cores
7130-Byz	Transmitter, Box Version	1
7130-Cyz	Transmitter, Card Version	1
7131-Byz	Receiver, Box Version	1
7131-Cyz	Receiver, Card Version	1
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America   AU - Australia   EU - Europe
JP - Japan   UK - United Kingdom

Part Number Suffix Codes:

y: 1   850 nm Multimode
      3   1310 nm Multimode
      7   1310 nm Single Mode
      9   1550 nm Single Mode

z: S   ST Connector
      F   FCPC Connector

Sales

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Video Specifications

Number of quantizing bits	10
Frequency Response	15 MHz (-3dB), +0.1 dB to 8 MHz
Input/Output Impedance	75 Ohms
Signal-to-Noise Ratio	67 dB per RS-250C
Differential Gain	0.7%
Differential Phase	0.5 degree
Video Gain Adjust	+/-4%
Y/C Delay	4 ns
2T K-Factor	0.4%
Video Connectors	BNC

Audio Specifications

Number of Audio Channels	4, balanced or unbalanced
Frequency Response	+0/-0.5 dB, 20 Hz - 20 kHz
Bits-per-Sample/Sampling Rate	24 bits; 62.5 kHz
Maximum Audio Level	+24 dBu
SNR (A-Weighted)	95 dB
THD+N	0.002%, 20 Hz - 20 kHz
Channel Phase Differential	+/-0.1°
Crosstalk	min. 95 dB (1 kHz)
Input Impedance	600 Ohms terminated; >24 k Ohms unterminated
Output Impedance	50 Ohms
Audio Connectors	Screw terminal block
Switches	DIP switches to select input termination, balanced or unbalanced input/output. Selectable on a per-channel basis

General Specifications

LED Indicators	Power; Video/Audio Present; Alarm LED (card version only)
Power Requirements*	9-24 volts AC or DC, 5 watts
Operating Temperature Range	-35° to +70° C
Optical Connectors	ST or FCPC
Physical Size	6.5 W x 1.15 H x 8 L (inches) 165 W x 29 H x 203 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots Filled in 6000A Card Cage	1

* For operation from 95-250VAC, 50/60Hz, a PDPS-1 plug-in adapter is required.

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7130 Wideband Video Series

GSA Schedule
Contract GS-03F-5063C
UL N12911 CE FC

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
850 MM	0-20	0-.75
1310 MM	0-24	0-2
1310 SM	0-23	0-55
1550 SM	0-25	0-80

SM = Single Mode Fiber
MM = MultiMode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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Made in the USA

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3134 Video Multiplexer Series
10 Channel Composite Video Multiplexer over one single mode or multimode fiber

Ideal Applications:
Security, Remote Monitoring, Command and Control Centers

Signal	Channels	Direction
Video	10	→

Cameras
(up to 10)

Monitors
(up to 10)

10 Channel Tx

10 Channel Rx

Fiber

Features

Multiplexes up to 10 composite video signals on one fiber

Compatible with multimode or single mode fiber

No adjustments; pure digital processing and transmission

Full color, uncompressed, real-time transmission in NTSC, PAL or SECAM

Built-in diagnostic LEDs for each channel and a loss of signal/broken fiber alarm

Internal, universal power supply with AC line cord

One rack unit high (1.75 inches). Rackmount ears included with unit

Fiberlink Matrix Compatible

Ordering Information

Part Number	Description	Fiber Cores
3134-S7-pp	Transmitter	1
3135-S7-pp	Receiver	1

Part Number Suffix Codes:

pp: NA - North America   AU - Australia   EU - Europe
     JP - Japan   UK - United Kingdom

Video Specifications

Number of Channels	10
Number of Fibers	1
Video Bandwidth (all channels at rated distance)	10 Hz - 6.5 MHz (-3 dB)
Video Input	1 volt p-p
Input/Outut Impedance	75 Ohms
Differential Gain	<1.5% typical
Differential Phase	<1 degree typical
Signal-to-Noise Ratio	>63 dB (CCIR weighting)
Video Connectors	BNC

General Specifications

Operating Wavelength	1310 nm**
Optical Connectors	ST
Operating Temperature	0 to +55 degrees C
Relative Humidity	10% - 90% (non-condensing)
Operating Power	95-250 VAC, 47-63 Hz
Size	1.75 H x 16.75 W x 10 D (inches) 44 H x 425 W x 254 D (mm)
Weight	Approx. 5.5 lbs; 2.5 kg
Fiberlink Matrix Compatibe	Yes

** Other wavelengths and loss budgets available on special order

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3134 Video Multiplexer Series

GSA Schedule
Contract GS-03F-5063C

UL   N12911   CE   FC

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)**	Distance (km)
SM	0-20	55
MM (50u)	0-20	1.3
MM (62.5u)	0-20	1.0

SM = Single Mode Fiber
MM = MultiMode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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7100 Wideband Video Series
15 MHz wideband video digitally transmitted over one fiber using 10-bit quantizing

Ideal Applications:
Broadcast, Cable, Satellite, Industrial Security

Box or Card

Signal	Channels	Direction
Wideband Video	1	→

Features

Transmits over one multimode or single mode fiber at 850, 1310 or 1550 nm

Pure digital processing and transmission

10-bit video sampling; 15 MHz video bandwidth; broadcast quality

Video channel is compatible with NTSC, PAL or SECAM video standards

Meets RS-250C short haul specification

Adjustable output video gain

Indicator LEDs monitor baseband signal and power

Wide range power supply allows operation from low voltage AC and DC sources

System consists of transmitter and receiver unit; card or box version. Each end, plus power supply, must be purchased separately.

Card version fills one slot in 6000A card cage

7100 Tx → Fiber Cable → **7101 Rx**
Program Video → → Program Video
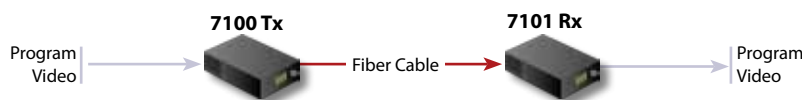
Ordering Information

Part Number	Description	Fiber Cores
7100-Bxy	Transmitter, Box Version	1
7100-Cxy	Transmitter, Card Version	1
7101-Bxy	Receiver, Box Version	1
7101-Cxy	Receiver, Card Version	1
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America   AU - Australia   EU - Europe
JP - Japan   UK - United Kingdom

Part Number Suffix Codes:

x:
1   850 nm Multimode
3   1310 nm Multimode
7   1310 nm Single Mode
9   1550 nm Single Mode

y:
S   ST Connector
F   FCPC Connector

Sales

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Video Specifications

Number of quantizing bits	10
Frequency Response	15 MHz (-3dB), +/- 0.1 dB to 8 MHz
Input/Output Impedance	75 Ohms
Signal-to-Noise Ratio	67 dB per RS-250C
Differential Gain	0.7%
Differential Phase	0.5 degree
Video Gain Adjust	+/- 4%
Y/C Delay	4 ns
2T K-Factor	0.4%
Video Connector	BNC

General Specifications

LED Indicators	Power; Baseband Video Present; Alarm LED (card version only)
Power Requirements*	9-24 volts AC or DC, 7 watts
Operating Temperature Range	-35° to +70° C
Optical Connectors	ST or FCPC
Physical Size	6.5 W x 1.15 H x 8 L (inches) 165 W x 29 H x 203 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots Filled in 6000A Card Cage	1

* For operation from 95-250VAC, 50/60Hz, a PDPS-1 plug-in adapter is required.

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7100 Wideband Video Series

GSA Schedule
Contract GS-03F-5063C

UL N12911 CE FC

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
850 MM	0-20	0-.75
1310 MM	0-25	0-2
1310 SM	0-23	0-55
1550 SM	0-25	0-80

SM = Single Mode Fiber
MM = MultiMode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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Communications Specialties, Inc. (CSI) is an award-winning manufacturer of Pro A/V products for the distribution, conversion or transmission of television and computer video signals, including fiber optic transmission systems, scan converters and video scalers. The company was founded in 1983 by veterans of the broadcast industry. Since then, CSI has managed to consistently design innovative products that are used worldwide by Fortune 500 Companies in a variety of markets such as Broadcast/Professional A/V, Videoconferencing, Education, Home Theater, Security, ITS, Industrial Monitoring, and more!

The **Fiberlink®** line offers an extensive and affordable family of fiber optic transmission systems for the Professional A/V marketplace and includes several ground-breaking products for the transmission of high-resolution RGB signals. Systems for point-to-point and point-to-multipoint signal distribution make these products highly desirable for any Pro A/V architecture. New products are constantly being designed and developed and you can get the latest information at commspecial.com

Also from CSI: Scan Do® Scan Converters and Deuce® Video Scalers

Made in the USA

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

Beamer-V
Fiber optic transmission of composite video in a simple, low-cost system

Video Camera

Beamer-V Tx — Fiber Cable → Beamer-V Rx → Monitor

Ideal Applications:

Security, A/V Confidence Monitoring

Signal	Channels	Direction
3100/3101 Video	1	→
3108A/3109A Video	Dual	→

Features

Transmits up to three kilometers over multimode fiber at 850 nm

8 MHz video bandwidth

May be purchased as a complete, low cost system including transmitter, receiver and two power supplies

Card version supports dual video channels

Card version fills one slot in 6000A card cage

Fiber is immune to the effects of electrical interference, ground loops, explosive and hazardous environments, moisture and high voltage

Ordering Information

Part Number	Description	Fiber Cores
3100	Transmitter Box	1
3101	Receiver Box	1
3105-pp	Beamer-V System: Includes 1 Transmitter Box, 1 Receiver Box and 2 Power Supplies	1
3108A	Dual Channel Transmitter Card	2
3109A	Dual Channel Receiver Card	2
119757	N. American Power Supply: 115 volts AC to 12 volts DC with connector	
102202	European Power Supply: 230 volts AC to 9 volts DC with connector	
119854	United Kingdom Power Supply: 230 volts AC to 9 volts DC with connector	
121016	Japanese Power Supply: 100 volts AC to 9 volts DC with connector	

Power Supply Suffix Codes (pp):

NA - North America   AU - Australia   EU - Europe
JP - Japan   UK - United Kingdom

Video Specifications

Number of Channels	1
Number of Outputs per Channel	Box: 1; Card: 2
Bandwidth	8 MHz
Input/Output Impedance	75 Ohms
Signal-to-Noise Ratio (per RS-250)	52 dB minimum
Differential Gain (per RS-250)	2% typical
Differential Phase (per RS-250)	1° typical
Input/Output Voltage	1 volt p-p (user adjustable at receiver)

General Specifications

Number of Fibers	Box: 1; Card: 2 (1 per channel)
Operating Temperature	-35 to +75° C
Relative Humidity	10 to 90%, non-condesnsing
Operating Power (per unit)	9-12 V $\pm$10% DC @ 100 ma max.
Dimensions	3.25 L x 2.38 W x 1 H (inches) 83 L x 60 W x 25.4 (mm)
Weight	3.0 oz. (85.04 grams)
Optical Connectors	ST
Optical Wavelength	850 nm
Optical Fiber	62.5 micron multimode fiber

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

Beamer-V

GSA Schedule
Contract GS-03F-5063C

UL N12911 CE FC

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
850 MM	0-12	0-3

* Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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Also from CSI: Scan Do® Scan Converters and Deuce® Video Scalers

Made in the USA

Data Only

5002: RS-232 Micro Transceiver

Transmits RS-232 data over multimode fiber for simplex, duplex, asynchronous, point-to-point and drop-and-repeat operation

Ideal Applications:

Remote control, Telemetry, Digital signage

Signal	Channels	Direction
RS-232 Data	1	←→

Features

Miniature transceiver occupies no more space than a DB-25 connector

Transmits over standard multimode fiber at 850 nm

Supports distances up to 3.2 km

Adjustment-free

May be user-configured to either DCE or DTE mode

Supports simplex, duplex, asynchronous, point-to-point and drop-and-repeat operating modes

Operates with all data rates up to 120 Kbps

Quick and easy to install

Power supply must be purchased separately

Point-to-Point

Plug into RS-232 Port | 5002 | Fiber Optic Cable | 5002 | Plug into RS-232 Port

Drop-and-Repeat

Plug into RS-232 Port | 5002 | Plug into RS-232 Port

Fiber Optic Cables

Plug into RS-232 Port | 5002 | Plug into RS-232 Port

Operating power may be applied through the "P" port or through the DB-25 connector pins

Ordering Information

Part Number	Description	Fiber Cores
5002-1	Microtransceiver	2
119757	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America	AU - Australia	EU - Europe
JP - Japan	UK - United Kingdom	

Sales

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Data Specifications

Operating Mode	Simplex, Duplex, Asynchronous Point-to-Point, Drop-and-Repeat
Data Transmission Rate	DC to 120 Kbps
Input Signal Voltage	±5 to ±10 volts per EIA RS-232D
Output Signal Voltage	±5 to ±10 volts per EIA RS-232D

General Specifications

Number of Fibers	2
Operating Temperature	-35 to +75° C
Relative Humidity	10 to 90%, non-condesnsing
Operating Power (per unit)	12 V ±10% DC @ 100 ma maximum
Dimensions	2.1 x 1.7 x 0.55 (inches) 53 x 43 x 14 (mm)
Weight	Approx. 1 lb.; .45 kg
Connectors	Optical: ST; Signal: DB-25P (male)
Optical Wavelength	850 nm
Optical Fiber	62.5 micron multimode fiber
ESD Protection	±10 kV

GSA Schedule
Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
850 MM	0-15	0-3.2

MM = MultiMode Fiber

* Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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Also from CSI: Scan Do® Scan Converters and Deuce® Video Scalers

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5012/5018A Universal Data Transceivers
RS-232/422/485 data transmitted digitally over single mode or multimode fiber

Ideal Applications:

Data Acquisition, Intelligent Transportation, Industrial, Manufacturing

Box or Card

Signal	Channels	Direction
Data	1	←——→
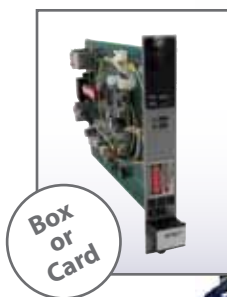
Point-to-Point Data Link Configuration

Data In/Out   Data In/Out

— Fiber Optic Cable —
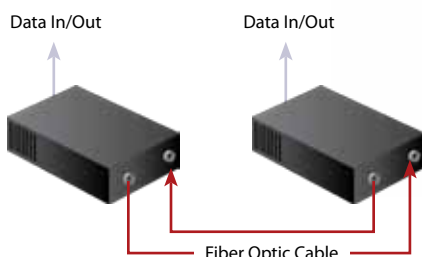
Ring or Loop Type Data Bus Configuration
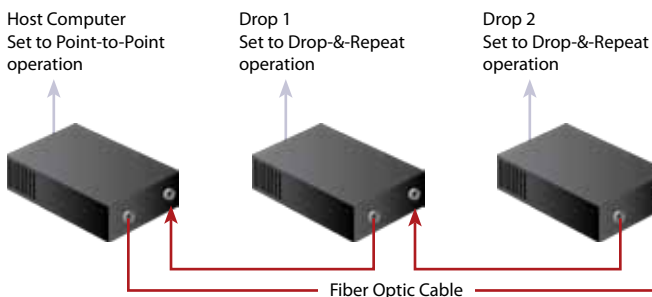
Host Computer   Drop 1   Drop 2
Set to Point-to-Point Set to Drop-&-Repeat Set to Drop-&-Repeat
operation   operation   operation

— Fiber Optic Cable —

Features

Transmits over multimode or single mode fiber at 850 or 1310 nm

Transmits and receives all standard data-related signals in accordance with EIA specifications

Suitable for simplex, full duplex and drop-and-repeat operation

May be easily user-configured for the desired protocol, including mixed protocols. Transmitter and receiver may be configured differently

Adjustment free; all digital processing and transmission

Wide operating data rate, with low-speed mode (DC up to 2.1 mbps; 200 Kbps for RS-232) and high-speed mode (10 Kbps - 10 mbps)

Extended ambient operating range

Data-derived or RTS transmit/receive switching (RS-485)

Indicator LEDS monitor signal and power

Card version fills one slot in 6000A card cage

RoHS Compliant

Ordering Information

Part Number	Description	Fiber Cores
5012-1	Transceiver Box, 850 nm, MM fiber	2
5018A-1	Transceiver Card, 850 nm, MM fiber	2
5012-3	Transceiver Box, 1310 nm, MM fiber	2
5018A-3	Transceiver Card, 1310 nm, MM fiber	2
5012-7	Transceiver Box, 1310 nm, SM fiber	2
5018A-7	Transceiver Card, 1310 nm, SM fiber	2
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America   AU - Australia   EU - Europe
JP - Japan   UK - United Kingdom

Sales

CSI Communications Specialties, Inc.

631-273-0404 | commspecial.com
info@commspecial.com

Data Specifications

Low-Speed Transmission Rate	RS-232, DC-200 Kbps; RS-422/485, DC to 2.1 Mbps
High-Speed Transmission Rate	RS-422/485, 10 Kbps to 10 Mbps
Operating Modes	Simplex, duplex, asynchronous, drop-and-repeat, RTS or data derived T/R control (RS-485)
Compatibility	RS-232, RS-422, RS-485 (2 or 4-wire)
Input Signal Voltage	+5 to +30 volts per EIA RS-232D 4.5 to 5 volts per RS-422, RS-485
Output Signal Voltage	+5 to +10 volts per EIA RS-232D 4.5 to 5 volts per RS-422, RS-485

General Specifications

Number of Fibers	2
Operating Wavelength	850 or 1310 nm
Connectors	Optical: ST: multimode; FC: singlemode Data: Removable screw-clamp type terminal block
Operating Power (per unit)	10 to 18 volts DC @ 150 ma peak (connected via separate power connector)
Operating Temperature Range	-35 to +74º C
Indicator LEDs	Power, Transmit, Receive, Loss of Data Alarm on card version
Physical Size	3.5 W x 1.25 H x 4.75 L (inches) 89 W x 32 H x 121 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots filled in 6000A Card Cage	1

Note: The Universal Data Transceiver is ESD protected to +/-kV on all signal inputs and outputs

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

5012/5018 Universal Data Transceivers

GSA Schedule Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
Low Speed Operation		
850 MM	0-12 dB	0-4
1310 MM	0-14 dB	0-14
1310 SM	0-15 dB	0-35
High Speed Operation		
850 MM	0-6 dB	0-2
1310 MM	0-8 dB	0-8
1310 SM	0-8 dB	0-20

SM = Single Mode Fiber
MM = MultiMode Fiber

* Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

Want to learn more about fiber?

Log on to commspecial.com for fiber related resources written for Pro A/V Professionals by Pro A/V Professionals!

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor. See website for terms and conditions.

About CSI

Communications Specialties, Inc. (CSI) is an award-winning manufacturer of Pro A/V products for the distribution, conversion or transmission of television and computer video signals, including fiber optic transmission systems, scan converters and video scalers. The company was founded in 1983 by veterans of the broadcast industry. Since then, CSI has managed to consistently design innovative products that are used worldwide by Fortune 500 Companies in a variety of markets such as Broadcast/Professional A/V, Video Conferencing, Education, Home Theater, Security, ITS, Industrial Monitoring, and more!

Also from CSI: Scan Do® Scan Converters and Deuce® Video Scalers

Sales

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Gigabit Ethernet Transceiver

Transport 10/100/1000-BASE ethernet over
1 or 2 single mode or multimode fibers

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

Ideal Applications:

IT, Broadcast, Pro A/V and any application that requires reliable
transmission of 10/100/1000 Ethernet data
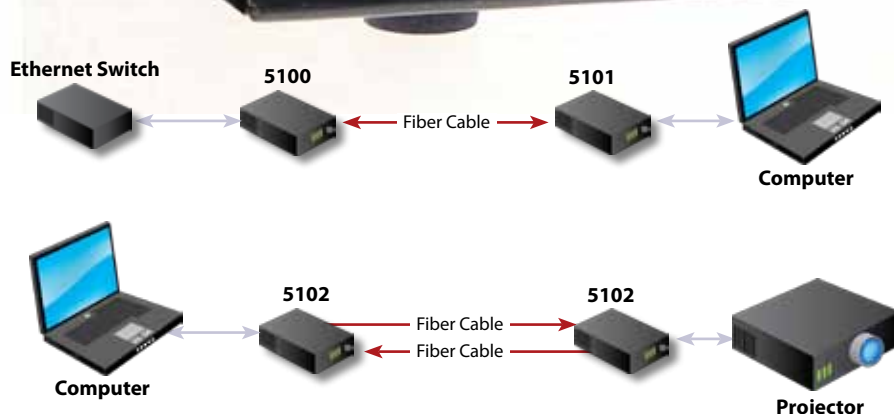
Features

Auto-sensing 10/100/1000 Mbps
Ethernet port with Auto MDIX

IEEE 802.3, IEEE 802.3u, IEEE 802.3az,
& IEEE 802.3z

Full-duplex and half-duplex

LEDs indicate Link Activity, SPD, Fault
Detection/Collisions and Power

Single mode & multimode versions
available

One or Two fiber versions available

Compact design, wall mountable

Ordering Information

Part Number	Description	Fiber Cores	1000-Base-X
5100-B7L	Single Mode or Multimode (1310/1490 nm)	1	BX10-U
5101-B7L	Single Mode or Multimode (1490/1310 nm)	1	BX10-D
5102-B7L	Single Mode or Multimode (1310 nm)	2	LX/LH
5102-B1L	Multimode (850 nm)	2	SX
PDPS-3-pp	Power Supply for 5100 Series		

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America AU - Australia EU - Europe
JP - Japan UK - United Kingdom

Sales

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FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

Gigabit Ethernet Transceiver
Transport 10/100/1000-BASE ethernet over one or two single mode or multimode fibers

Transmission Distance & Loss Budgets

Part Number	1000 Base-	Fiber Cores & Type	802 Distance Spec	CSI Loss Budget	CSI Typical Distance*
5100-B7L	BX10-U	1 SM or MM	SM 10km	15dB min (pair)	1k MM, 10km SM
5101-B7L	BX10-D	1 SM or MM	SM 10km	15dB min (pair)	1k MM, 10km SM
5102-B7L	LX, LH, LH10	2 SM or MM	MM 50u 550m, SM 10km	12dB min	1k MM, 10km SM
5102-B1L	SX	2 MM	MM 50u 550m, 62.5u 220m	9dB min	1k

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

General Specifications

Maximum Speed (1000Base-Tx/Fx)	Full Duplex: 2000Mbps Half Duplex: 1000Mbps
Packet Forwarding Rate	14880pps@10Mbps 148800pps@100Mbps 1488000pps@1000Mbps
Cabling/Maximum Distance	See chart above (longer distances on request)
Connectors	Copper: RJ-45(Auto-MDI / MDI-X) Fiber Optic: LC type
LEDs	TX: LINK/ACT, SPD, FD / COL FX: LINK/ACT, SPD, FD / COL Power
Launch Power/Receiver Sensitivity	1 Fiber SM: -8 dBm min / -23 dBm max 2 Fiber SM: -9 dBm min / -21 dBm max 2 Fiber MM: -9 dBm min / -18 dBm max
Power	Input 12V @ 300ma, 3.6 watts 12.28 BTU/Hr
Operating Temperature Range	0 to +50º Celcius
Operating and Storage Humidity	10% to 90% relative humidity (non-condensing)
Weight	2 pounds
Dimensions	4.25" x 3.14" x 1.02" (108mm x 80mm x 26mm)

C E FC

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Sales

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Made in the USA

Optical Matrix Switchers

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

Fiberlink Matrix
Fully configurable optical matrix switch offering up to 32 inputs and 32 outputs selectable on a one by one basis.

Fiberlink Matrix populated with LC connectors   *Fiberlink Matrix populated with ST connectors*

Features

Input and output quantities do not have to match. For example, if a project requires a 15x26 matrix, you can order a 15x26 Fiberlink Matrix.

Available with up to 32 optical inputs and 32 optical outputs

Support single mode or multimode fiber optic types with no changes required by the operator.

Mix and match single mode and multimode fiber types in one system.

Front panel preset store, recall, review and edit functionality

Supports pathological patterns

Reclocking of SMPTE SDI and CSI data rates.

Available with LC or ST connectors

Remote controllable via RS-232 and built in Ethernet based GUI

Compatible with third-party controllers

USB port allows for fast configuration of multiple matrices, facilitates firmware and GUI upgrades and configuration back-up

Dual color illuminated front panel keys make operation a snap

Optionally choose to eliminate the front panel key control and operate Fiberlink Matrix through its remote control ports only

Redundant power supplies

Small form factor: only 3RU high

Ordering Information

Part Number	Description	Fiber Cores
OM32c-aa-bb-z-pp	Fiberlink Matrix (32x32 max)	up to 32
OM16c-aa-bb-z-pp	Fiberlink Matrix (16x16 max)	up to 16

Front Panel Option (c)

P - Full Button Control   N - No front panel button control

Input Quantity (aa)

OM32:   01 through 32
OM16:   01 through 16

Output Quantity (bb)

OM32:   01 through 32
OM16:   01 through 16

Optical Connector Type (z)

S - ST Connector Type   L - LC Connector Type

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America   AU - Australia   EU - Europe
JP - Japan   UK - United Kingdom

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Optical Inputs

Number to order	Independent of number of outputs OM32 - 1 to 32 inputs OM16 - 1 to 16 inputs
Data Rate	50 Mbps - 3.2 Gbps
Connector	LC or ST (must match output type)
Wavelength	1100 - 1620 nm
Fiber Types Supported	Multimode & Single Mode
Minimum Input Sensitivity	270 Mbps – -23 dB 1.485 Gbps – -20 dB 2.97 Gbps – -17 dB
Maximum Input Sensitivity	0 dBm
Pathological Signal Support	Yes, per SMPTE EG-34
SMPTE 297-2006 Compliant	Yes

Optical Outputs

Number to order	Independent of number of inputs OM32 - 1 to 32 inputs OM16 - 1 to 16 inputs
Data Rate	50 Mbps - 3.2 Gbps
Connector	LC or ST (must match input type)
Wavelength	1310 nm, nominal, FP laser Other wavelengths and output power available via special order
Fiber Types Supported	Multimode & Single Mode
Output Power	-3.5 dBm, +/- 0.5 dB
Pathological Signal Support	Yes, per SMPTE EG-34
SMPTE 297-2006 Compliant	Yes
Re-clocked Data Rates	All SMPTE 3G/HD/SD-SDI data rates to 2.97 Gbps All CSI Fiberlink data rates for compatible products listed within

Operating Features

Preset Store, Recall Review & Edit	Up to 32 (OM16) or 64 (OM32) presets may be stored and recalled from the front panel, RS-232 or GUI. A preset consists of one or more I/O paths and can be edited with or without executing an I/O switch
USB Port	A front panel USB port is used for the external storage of presets and matrix configuration. It's also used for upgrade of the product firmware.
Status Monitoring	Front panel and GUI monitor of I/O and laser status Recall of current and preset paths Internal Temperature through GUI
Control	RS-232, 10/100 Base-T Ethernet with internal GUI. Optional front panel. Compatible with third-party controllers

CSI Product Compatibility

The following CSI products are compatible with Fiberlink Matrix when operating at the 1100 - 1620 nanometer range:

Scan Do® HD - 1297	Scan Do® HD - 1298
3150 Series	335x Series
3360 Series	3380 Series
3400 Series	3440 Series
3620 Series	4040 Series
4160 Series	4320 Series
5100 Series (2 Fiber)	7030 Series
7040 Series	7050 Series
7060 Series	7070 Series
7100 Series	7130 Series
7140 Series	722x Series
7242 Series	7250 Series
7820 Series	8000 Series
8100 Series	
Flex Series (1 Way & 2 Fiber for bi-directionality)	

General Specifications

Input Voltage Range	95 - 250 volts AC, 47 -63 Hz
OM32 Power	57 Watts, 179 BTU/Hr
OM16 Power	39 Watts, 123 BTU/Hr
Dimensions: (inches) (mm)	Without rackmount ears: 16.75 W x 5.25 H x 14 D 425 W x 134 H x 356 D Occupies 3 RU
Operating Temperature	-10 C to +45 C
MTBF	OM32 – 32,000 hours OM16 – 38,000 hours
Weight (maximum)	12 lbs, 5.46 kg
Upgradeable:	Firmware upgradeable by user. I/O ports are factory upgradable only.

Sample Application

Legend: ▬▬ 3G/HD/SD-SDI Signal   ▬▬ RGB Signal   ▬▬ HD Component Signal   ▬▬ Baseband (Copper)

Remote Studio
or OB Van

Broadcast
Camera

Broadcast
Camera

Broadcast
Camera

Broadcast
Camera

3350 3G-SDI
Transmitter

3360 3G-SDI
with AES/EBU Audio
Transmitter

3350 3G-SDI
Transmitter

3360 3G-SDI
with AES/EBU Audio
Transmitter

7220 RGB
Transmitter

RGB Loop

RGB Source

Scan Do HD
Computer Video to
3G/HD/SD-SDI Scan
Converter

7820 HD
Component
Transmitter

Component
Source

Inputs

Fiberlink® Matrix

Outputs

Signal
from 3350
Tx

Signal
from 3350
Tx

Signal
from 3360
Tx

Signal
from 3360
Tx

Signal from
Scan Do HD

Signal
from 3360
Tx

Signal
from 7220
Tx

Signal
from 7220
Tx

Signal
from 7820
Tx

Signal from
7820 Tx

Signal
from Scan Do HD

Signal
from 3350
Tx

Signal
from 3350
Tx

3351 3G-SDI
Receiver

3361 3G-SDI
with AES/EBU
Audio Receiver

3351 3G-SDI
Receiver

7221 RGB
with Audio
Receiver

7821 HD
Component with
Audio Receiver

3353 3G-SDI
to HDMI with
Audio Receiver

3355 3G-SDI
to DVI with
Audio Receiver

3351 3G-SDI
Receiver

3361 3G-SDI
with AES/EBU
Audio Receiver

3351 3G-SDI
Receiver

7221 RGB
with Audio
Receiver

7821 HD
Component with
Audio Receiver

3353 3G-SDI
to HDMI with
Audio Receiver

3G-SDI Display

3G-SDI Display
with Audio

3G-SDI Display

RGB Display
with Audio

HD Component
Video with Audio

HDMI Display
with Audio

DVI Display
with Audio

3G-SDI Display

3G-SDI Display
with Audio

3G-SDI Display

RGB Display
with Audio

HD Component
Video with Audio

HDMI Display
with Audio

Fiberlink® 6610 Visible Light Source

The Fiberlink® Visible Light Source provides a visible 650 nm laser output that can be used for identifying fiber breaks and individual fibers within fiber bundles, allowing for convenient, on-site testing of fiber networks during construction and maintenance procedures.

Fiberlink® 6615 Optical Power Meter

The Fiberlink® Optical Power Meter measures the power of optical signals at 850, 980, 1310 and 1550 nm wavelengths, allowing for convenient, on-site testing of fiber networks during construction and maintenance procedures. It can be used to measure the power of an optical signal reaching the receiving end of a fiber optic cable, as generated either by a transmitter unit or by a light source such as the 6620.

Fiberlink® 6620
Three Wavelength Light Source

The Fiberlink® Three Wavelength Light Source offers a laser output at wavelengths of 1310 and 1550 nm and VCSEL output at 850 nm, allowing for convenient, on-site testing of fiber networks during construction and maintenance procedures.

32x32 Optical Matrix Switch

GSA Schedule
Contract GS-03F-5063C

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3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor. See website for terms and conditions.

Sales

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Made in the USA

ODAs, Splitters and WDMs

FIBERLINK®
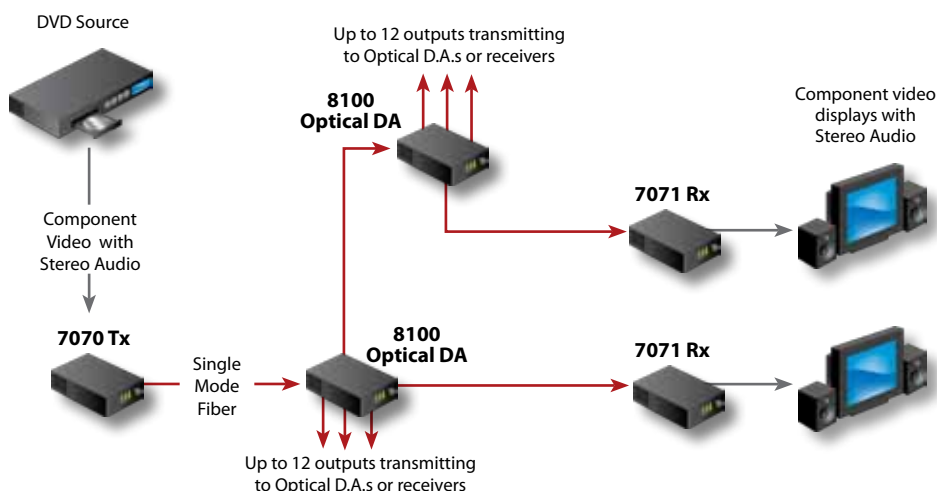## VIDEO, AUDIO & DATA OVER FIBER

8100 Optical Distribution Series
Twelve output optical D.A. works with one-way
Fiberlink systems, providing infinite
signal extension and distribution options

Ideal Applications:

Digital signage, broadcast or corporate studios, auditoriums, stadiums and theaters, airport or transportation hubs, distance learning, surgical or medical imaging and more!

Signal	Channels	Direction
All types	2 to 12 DA	⟶

DVD Source

Up to 12 outputs transmitting to Optical D.A.s or receivers

8100 Optical DA

Component video displays with Stereo Audio

7071 Rx

Component Video with Stereo Audio

7070 Tx

Single Mode Fiber

8100 Optical DA

7071 Rx

Up to 12 outputs transmitting to Optical D.A.s or receivers

Features

Receives an optical signal from a Fiberlink transmitter; then digitally regenerates and relaunches it over two to 12 outputs

Works with one-way Fiberlink systems*; can support multiple channels on each output

Units may be daisy-chained to create elaborate distribution networks

Absolutely no degradation to original baseband signals

Inputs and outputs configured separately; configured in sets of two

Works with multimode or single mode fiber at 850, 1310 or 1550 nm

Stand-alone box with internal power supply

Rackmount ears provided for mounting in standard 19" rack. 1RU high

*See chart on reverse side for wavelength compatibility.

Ordering Information

Part Number	Description
8102pp-yzw	Configured for 2 output
8104pp-yzww	Configured for 4 outputs
8106pp-yzwww	Configured for 6 outputs
8108pp-yzwwww	Configured for 8 outputs
8110pp-yzwwwww	Configured for 10 outputs
8112pp-yzwwwwww	Configured for 12 outputs

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America   AU - Australia   EU - Europe
JP - Japan   UK - United Kingdom

Part Number Suffix Codes:

w: *Output Optical Wavelength/Mode/Connector*
- J   850 nm, MM, ST
- K   850 nm, MM, FC
- L   1310 nm, MM, or SM, ST
- M   1310 nm, MM, or SM, FC
- N   1310 nm, MM or SM, ST High Speed
- P   1310 nm, MM or SM, FC High Speed
- Q   1550 nm, MM or SM, ST
- R   1550 nm, MM or SM, FC

y: *Input Optical Wavelength/Mode*
- 8   850 nm, MM
- 3   1310/1550, MM or SM

z: *Input Connector*
- S   ST connector
- F   FCPC connector

For operating Loss Budgets and Maximum Usable Distance, please see the 8000 & 8100 Loss Budgets Data Sheet

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

8100 Optical Distribution Series

Compatability Chart

The following chart indicates which Fiberlink® systems can interface with the 8100 Series units. Note that when multiple ODA's are cascaded together, signal compatibility is a function of the Transmitter and Receiver units being used on each end of the system.

Can Receive: ●
Can't Receive: ○

8100 O.D.A.s can RECEIVE the following inputs from Fiberlink Transmitter units:

Tx Output to D.A.	850nm MM	1310 nm MM	1310 nm SM	1550nm MM/SM
3132	○	○	○	●
3400	●	●	●	●
3440	●	○	○	○
4040	●	●	●	●
4160	●	●	●	●
4320	●	●	●	●
7030	●	●	●	●
7040	●	●	●	●
7050	●	●	●	●
7060	●	●	●	●
7070	●	●	●	●
7100	●	●	●	●
7130	●	●	●	●
7140	●	●	●	●
7220/2/4/6	○	●	●	●
7242	○	●	●	●
7250*	○	●	●	○
8000	●	●	●	●
8100	●	●	●	●
Flex	●	●	●	●

8100 O.D.A.s can TRANSMIT the following outputs to Fiberlink Receiver units:

D.A. Output to Rx	850nm MM	1310 nm MM	1310 nm SM	1550nm MM/SM
3133	○	○	○	●
3401	●	●	●	●
3441	●	○	○	○
4041	●	●	●	○
4161	●	●	●	○
4321	●	●	●	○
7031	●	●	●	●
7041	●	●	●	●
7051	●	●	●	●
7061	●	●	●	●
7071	●	●	●	●
7101	●	●	●	●
7131	●	●	●	●
7141	●	●	●	●
7221/3/5/7	○	●	●	●
7243	○	●	●	●
7251*	○	●	●	○
8000	●	●	●	●
8100	●	●	●	●
Flex	●	●	●	○

* The 7250 Series is a two fiber system. You will need two 8100 ODA's.

General Specifications

The 8100 Series Optical D.A. does not have any video, audio or data specifications of its own. These baseband specifications are a function of the Fiberlink system that is being used in conjunction with the 8100 Series. Refer to the respective product data sheets for complete information.

It should be noted that when using an 8100 Series O.D.A., operating loss budget and maximum usable distance will vary from that specified on the individual product data sheets. A supplement to this data sheet, featuring a complete listing of loss budgets, is available online. Or, you may contact CSI's sales department for assistance.

Operating Wavelength	850, 1310 and/or 1550 nm
Number of Fibers	1 in; 2 to 12 out
Signal Connectors	ST and/or FCPC
LED Indicators	Power, Input Signal Present, Unit Locked to Input
Operating Temperature	-10º C to +40º C
Relative Humidity	10% - 90% (non-condensing)
Operating Power	95 - 250 volts AC, 47-63 Hz
Physical Size	16.75 W x 1.75 H x 14 D (inches) 425 W x 44 H x 356 D (mm)
Weight	approx. 7 lbs.; 3.15 kg

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Sales

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3 YEAR LIMITED WARRANTY

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Made in the USA

GSA Schedule Contract GS-03F-5063C   UL N12911 CE FC

FIBERLINK®
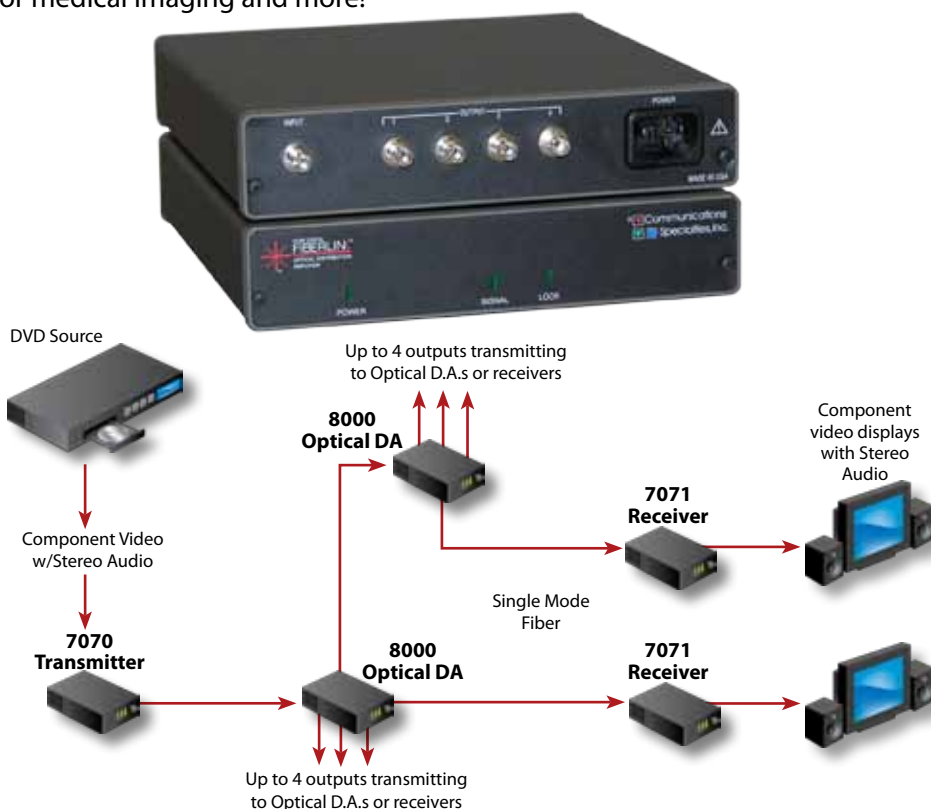### VIDEO, AUDIO & DATA OVER FIBER

8000 Optical Distribution Series
Four output optical D.A. works with one-way Fiberlink systems, providing infinite signal extension and distribution options

Ideal Applications:

Digital signage, broadcast or corporate studios, auditoriums, stadiums and theaters, airport or transportation hubs, distance learning, surgical or medical imaging and more!

Signal	Channels	Direction
All types	1 to 4 DA	→

Features

Receives an optical signal from a Fiberlink transmitter; then digitally regenerates and relaunches it over one to four outputs

Works with one-way Fiberlink systems*; can support multiple channels on each output

Units may be daisy-chained to create elaborate distribution networks

Absolutely no degradation to original baseband signals

Inputs and outputs configured separately; configured in sets of two

Works with multimode or single mode fiber at 850, 1310 or 1550 nm

Stand-alone box with internal power supply

One and two unit rackmount kits available for mounting in 19" rack

*See chart on reverse side for wavelength compatibility.

DVD Source

Component Video w/Stereo Audio

7070 Transmitter

8000 Optical DA

Up to 4 outputs transmitting to Optical D.A.s or receivers

Up to 4 outputs transmitting to Optical D.A.s or receivers

Single Mode Fiber

7071 Receiver

Component video displays with Stereo Audio

Ordering Information

Part Number	Description
8001pp-yzw	Configured for 1 output
8002pp-yzww	Configured for 2 outputs
8003pp-yzwww	Configured for 3 outputs
8004pp-yzwwww	Configured for 4 outputs
1240	Rackmount for one 8000 unit
1241	Rackmount for two 8000 units

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America   AU - Australia   EU - Europe
JP - Japan   UK - United Kingdom

Part Number Suffix Codes:

w: *Output Optical Wavelength/Mode/Connector*
- A 850 nm, MM, ST
- B 850 nm, MM, FC
- C 1310 nm, MM, or SM, ST
- D 1310 nm, MM, or SM, FC
- E 1310 nm, MM or SM, ST High Speed
- F 1310 nm, MM or SM, FC High Speed
- G 1550 nm, MM or SM, ST
- H 1550 nm, MM or SM, FC

y: *Input Optical Wavelength/Mode*
- 8 850 nm, MM
- 3 1310/1550, MM or SM

z: *Input Connector*
- S ST connector
- F FCPC connector

For operating Loss Budgets and Maximum Usable Distance, please see the 8000 & 8100 Loss Budgets Data Sheet

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VIDEO, AUDIO & DATA OVER FIBER

8000 Optical Distribution Series

Compatability Chart

The following chart indicates which Fiberlink® systems can interface with the 8000 Series units. Note that when multiple ODA's are cascaded together, signal compatibility is a function of the Transmitter and Receiver units being used on each end of the system.

Can Receive: ●
Can't Receive: ○

8000 O.D.A.s can RECEIVE the following inputs from Fiberlink Transmitter units:

Tx Output to D.A.	850nm MM	1310 nm MM	1310 nm SM	1550nm MM/SM
3132	○	○	○	●
3400	●	●	●	●
3440	●	○	○	○
4040	●	●	●	●
4160	●	●	●	●
4320	●	●	●	●
7030	●	●	●	●
7040	●	●	●	●
7050	●	●	●	●
7060	●	●	●	●
7070	●	●	●	●
7100	●	●	●	●
7130	●	●	●	●
7140	●	●	●	●
7220/2/4/6	○	●	●	●
7242	○	●	●	●
7250*	○	●	●	○
8000	●	●	●	●
8100	●	●	●	●
Flex	●	●	●	●

8000 O.D.A.s can TRANSMIT the following outputs to Fiberlink Receiver units:

D.A. Output to Rx	850nm MM	1310 nm MM	1310 nm SM	1550nm MM/SM
3133	○	○	○	●
3401	●	●	●	●
3441	●	○	○	○
4041	●	●	●	○
4161	●	●	●	○
4321	●	●	●	○
7031	●	●	●	●
7041	●	●	●	●
7051	●	●	●	●
7061	●	●	●	●
7071	●	●	●	●
7101	●	●	●	●
7131	●	●	●	●
7141	●	●	●	●
7221/3/5/7	○	●	●	●
7243	○	●	●	●
7251*	○	●	●	○
8000	●	●	●	●
8100	●	●	●	●
Flex	●	●	●	○

* The 7250 Series is a two fiber system. You will need two 8000 ODA's.

General Specifications

The 8000 Series Optical D.A. does not have any video, audio or data specifications of its own. These baseband specifications are a function of the Fiberlink system that is being used in conjunction with the 8000 Series. Refer to the respective product data sheets for complete information.

It should be noted that when using an 8000 Series O.D.A., operating loss budget and maximum usable distance will vary from that specified on the individual product data sheets. A supplement to this data sheet, featuring a complete listing of loss budgets, is available online. Or, you may contact CSI's sales department for assistance.

Operating Wavelength	850, 1310 and/or 1550 nm
Number of Fibers	1 in; 1 to 4 out
Signal Connectors	ST and/or FCPC
LED Indicators	Power, Input Signal Present, Unit Locked to Input
Operating Temperature	-10º C to +40º C
Relative Humidity	10% - 90% (non-condensing)
Operating Power	95 - 250 volts AC, 47-63 Hz
Physical Size	7.25 W x 1.5 H x 8 D (inches) 184 W x 38 H x 203 D (mm)
Weight	approx. 2 lbs.; 0.91 kg
Slots Filled in 6000A Card Cage	Card version is not offered at this time. SIngle and double unit rackmount kits may be purchased for mounting the box unit within a standard 19" rack.

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3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor. See website for terms and conditions.

GSA Schedule Contract GS-03F-5063C

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

8000 & 8100
Optical Distribution Series
Loss budgets and transmission distances

This four-page guide is intended to be used as a supplement to the data sheets for the 8000 and 8100 Series of products.

Signal	Channels	Direction
8000 Series All types	1 to 4 DA	→
8100 Series All types	2 to 12 DA	→

8000 Series

8100 Series

Contents

The following charts show loss budgets and maximum transmission distances for all units compatible with the 8000 and 8100 Series O.D.A.s. Products not included on the input and/or output charts do not function with these units. Note that some systems operating at the highest wavelength are compatible with the O.D.A.s' input but not with their output.

Be sure to refer to the charts on the last page of this document for loss budgets resulting from the cascading of two or more O.D.A.s together, as these numbers are different than when only a single O.D.A. is in use.

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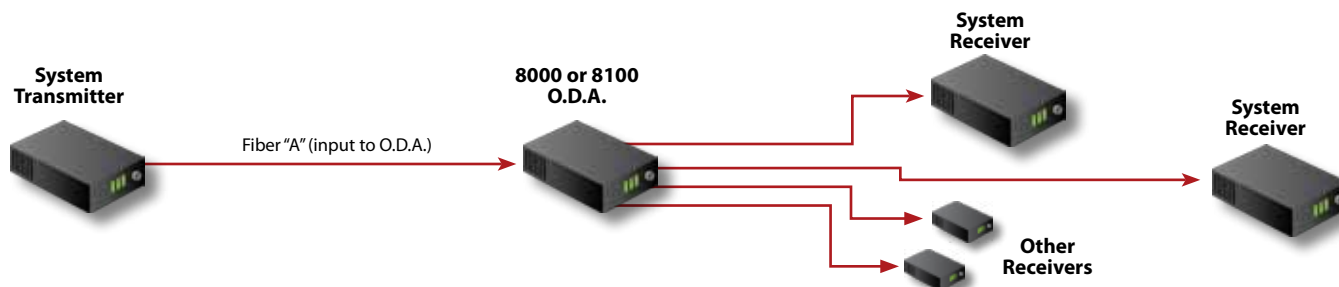
System Source Transmitter	Loss Budget in dB for Fiber "A"	Max. Distance in km for Fiber "A"	8000 & 8100 Part Number Configuration for "y"
P/N: Flex System (1-way systems only)			
Part Suffix			
-1	0-18	2	8
-3	0-1	0.3	3
-7	2-18	40	3
-9	0-17	55	3
P/N: 3132			
Part Suffix			
-x9pp	0-15	0.5 (MM)* or 50 (SM)**	3
P/N: 3440			
Part Suffix			
-x1z	0-18	2	8
P/N: 4040			
Part Suffix			
-x1z	0-20	1	8
-x3z	2-18	5	3
-x7z	2-16	35	3
-x9z	0-17	55	3
P/N: 4160, 4320			
Part Suffix			
-zz1y or -zzy1	0-20	1	8
-zz3y or -zzy3	2-18	5	3
-zz7y or -zzy7	2-16	35	3
-zz9y or -zzy9	0-17	55	3
P/N: 7030, 7040, 7050, 7060, 7070, 7100, 7130, 7140			
Part Suffix			
-x1z	0-13	0.75	8
-x3z	2-18	2	3
-x7z	2-16	35	3
-x9z	2-17	55	3
P/N: 7220, 7222, 7224, 7226, 7225, 7227, 7242			
Part Suffix			
-x7z	0-12	0.5 (MM)* or 20 (SM)**	3
-x9z***	0-12	0.4 (MM)* or 20 (SM)**	3

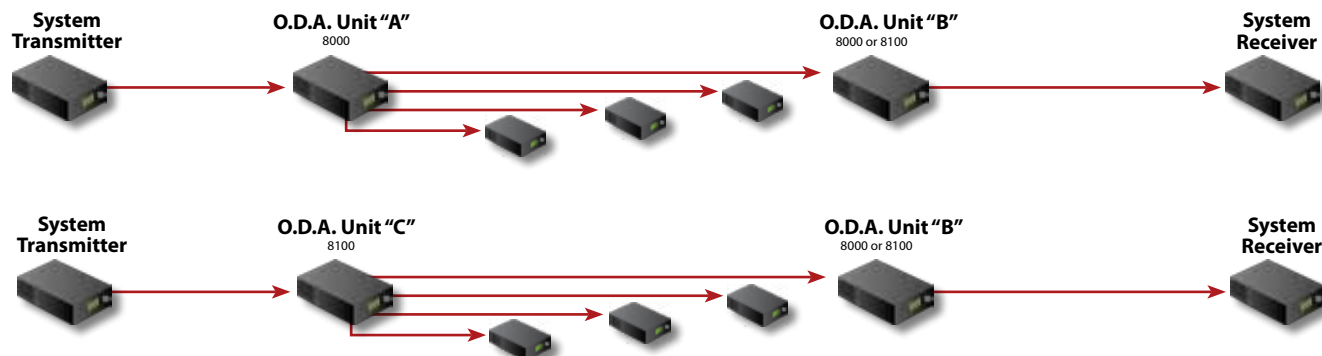*(MM) = transmitted over multimode fiber; **(SM) = transmitted over single mode fiber; ***Discontinued product

System Transmitter → **8000 or 8100 O.D.A.** → Fiber "B" (O.D.A. to Receiver Units) → **System Receiver** / **System Receiver**
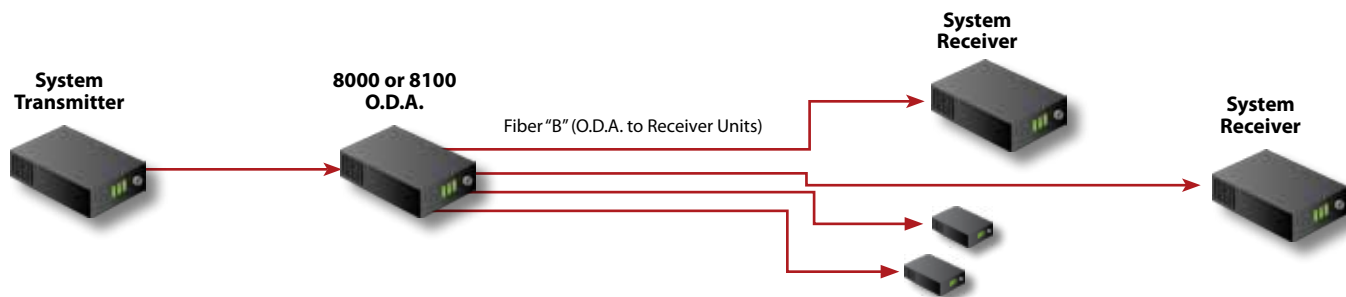
System Receiver	Loss Budget in dB for Fibers "B"	Max. Distance in km for Fibers "B"	Part Number Configuration for "w"	
			8000	8100
P/N: Flex System (1-way systems only)				
Part Suffix				
-1	0-18	2	A or B	J or K
-3	0-28	18	C or D	L or M
-7	0-28	60	C or D	L or M
P/N: 3133				
Part Suffix				
-x9pp	0-13	0.5 (MM)* or 40 (SM)**	G or H	Q or R
P/N: 3441				
Part Suffix				
-x1z	0-16	2	A or B	J or K
P/N: 4041				
Part Suffix				
-x1z	0-20	1	A or B	J or K
-x3z	0-25	10	C or D	L or M
-x7z	0-23	55	C or D	L or M
P/N: 4161, 4321				
Part Suffix				
-zz1y or -zzy1	0-20	1	A or B	J or K
-zz3y or -zzy3	0-25	10	C or D	L or M
-zz7y or -zzy7	0-23	55	C or D	L or M
P/N: 7031, 7041, 7051, 7061, 7071, 7101, 7131, 7141				
Part Suffix				
-x1z	0-13	0.75	A or B	J or K
-x3z	0-23	2	C or D	L or M
-x7z	0-21	45	C or D	L or M
-x9z	0-17	55	G or H	Q or R
P/N: 7221, 7223, 7225, 7227, 7243				
Part Suffix				
-x7z	0-12	0.5 (MM)* pr 20 (SM)**	E or F	N or P
-x9z***	0-12	0.4 (MM)* or 20 (SM)**	G or H	Q or R

*(MM) = transmitted over multimode fiber; **(SM) = transmitted over single mode fiber; ***Discontinued product

System Transmitter → **O.D.A. Unit "A"** 8000 → **O.D.A. Unit "B"** 8000 or 8100 → **System Receiver**

System Transmitter → **O.D.A. Unit "C"** 8100 → **O.D.A. Unit "B"** 8000 or 8100 → **System Receiver**

Note: When two or more O.D.A units are cascaded together, loss budgets and distances should be derated by 10% for each additional O.D.A.

| System Source Transmitter	Unit "A" Configuration for "w"	Unit "C" Configuration for "w"	Loss Budget in dB	Max. Distance in km	Unit "B" Configuration for "y"
P/N: Flex System (1-way systems only)					
Part Suffix					
-1	A or B	J or K	0-16	1.5	8
-3	C or D	L or M	2-17	11	3
-7	C or D	L or M	2-18	40	3
P/N: 3132					
Part Suffix					
-x9pp	G or H	Q or R	0-15	0.5 (MM)* or 50 (SM)**	3
P/N: 3440					
Part Suffix					
-x1y	A or B	J or K	0-18	2	8
P/N: 4040					
Part Suffix					
-x1z	A or B	J or K	0-20	1	8
-x3z	C or D	L or M	2-18	5	3
-x7z	C or D	L or M	2-16	35	3
P/N: 4160, 4320					
Part Suffix					
-zz1y or zzy1	A or B	J or K	0-20	1	8
-zz3y or zzy3	C or D	L or M	2-18	5	3
-zz7y or zzy7	C or D	L or M	2-16	35	3
P/N: 7030, 7040, 7050, 7060, 7070, 7100, 7130, 7140					
Part Suffix					
-x1z	A or B	J or K	0-13	0.75	8
-x3z	C or D	L or M	2-18	2	3
-x7z	C or D	L or M	2-16	35	3
-x9z	G or H	Q or R	2-17	55	3
P/N: 7220, 7224, 7226, 7225, 7227, 7242					
Part Suffix					
-x7z	E or F	N or P	0-11	0.5 (MM)* or 20 (SM)**	3
-x9z***	G or H	Q or R	0-11	20 (SM)**	3

*(MM) = transmitted over multimode fiber; **(SM)= transmitted over single mode fiber; *** Discontinued product
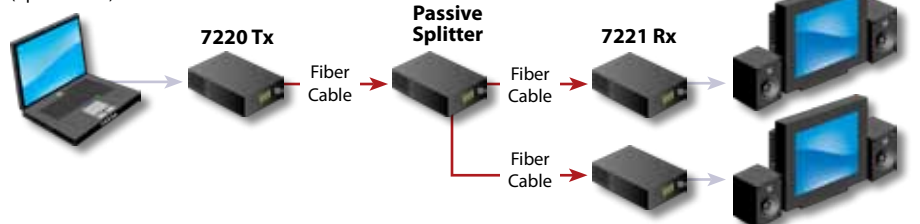
6500 Optical Splitter Series

Passive optical splitters allow transmission from one fiber optic transmitter to multiple receiver units by "splitting" optical power across outputs

Ideal Applications:

Digital Signage,
Multipoint Surveillance Monitoring

Box or Card
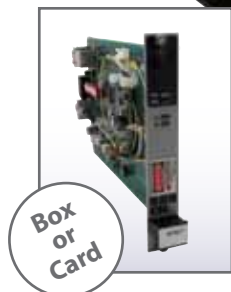
Signal	Channels	Direction
All Types	2 or 4	→

Features

Passive optical splitters "split" the optical power from a one-way fiber optic transmitter to drive multiple fibers simultaneously

As optical power is "split" between outputs, each output incurs "optical loss", specified in dB

Works with all Fiberlink® one-way systems

Due to optical loss, distance supported will be significantly less than in point-to-point systems. For support of longer distances, refer to Series 8000 and 8100 active distribution amplifiers

No power required

Models available for use with either single mode or multimode fiber with two or four outputs

Available with either ST or FCPC connectors

Card version fits in 6000A card cage

Component video displays with Stereo Audio

High-Res RGB (up to WXGA)

7220 Tx

Fiber Cable

6522 Passive Splitter

Fiber Cable

7221 Rx

Fiber Cable

Ordering Information

Part Number	Description	Type of Fiber
6512-1-Bz	1 x 2 Passive Splitter Box Version	MM
6512-1-Cz	1 x 2 Passive Splitter Card Version	MM
6522-1-Bz	1 x 2 Passive Splitter Box Version	SM
6522-1-Cz	1 x 2 Passive Splitter Card Version	SM
6514-1-Bz	1 x 4 Passive Splitter Box Version	MM
6514-1-Cz	1 x 4 Passive Splitter Card Version	MM
6524-1-Bz	1 x 4 Passive Splitter Box Version	SM
6524-1-Cz	1 x 4 Passive Splitter Card Version	SM

Part Number Suffix Codes:

z: S   ST Connector
       F   FCPC Connector

Sales

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General Specifications

Number of Fibers	1 in; 2 or 4 out
Operating Wavelength	6512 & 6514: 850/1310nm, Multimode 6522 & 6524: 1310/1550nm, Single Mode
Insertion Loss (each output)	6512 & 6522: 3.5 to 4.5 dB 6514 & 6524: 6.5 to 8.0 dB
Power Requirements	none
Operating Temperature Range	-35° to +74° C
Relative Humidity	10% - 95% (non-condensing)
Optical Connectors	ST or FCPC
Physical Size	1.2 H x 5 W x 7 D (inches) 30 H x 127 W x 178 D (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots Filled in 6000A Card Cage	6512 & 6522: 1 6514 & 6524: 2

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

6500 Optical Splitter Series

GSA Schedule
Contract GS-03F-5063C

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

You may be interested in the Fiberlink 6400 Series:

Passive optical wave division multiplexers that allow two separate fiber optic links to operate at different wavelengths over a singe fiber!

About CSI

Communications Specialties, Inc. (CSI) is an award-winning manufacturer of Pro A/V products for the distribution, conversion or transmission of television and computer video signals, including fiber optic transmission systems, scan converters and video scalers. The company was founded in 1983 by veterans of the broadcast industry. Since then, CSI has managed to consistently design innovative products that are used worldwide by Fortune 500 Companies in a variety of markets such as Broadcast/Professional A/V, Videoconferencing, Education, Home Theater, Security, ITS, Industrial Monitoring, and more!

The **Fiberlink®** line offers an extensive and affordable family of fiber optic transmission systems for the Professional A/V marketplace and includes several ground-breaking products for the transmission of high-resolution RGB signals. Systems for point-to-point and point-to-multipoint signal distribution make these products highly desirable for any Pro A/V architecture. New products are constantly being designed and developed and you can get the latest information at commspecial.com

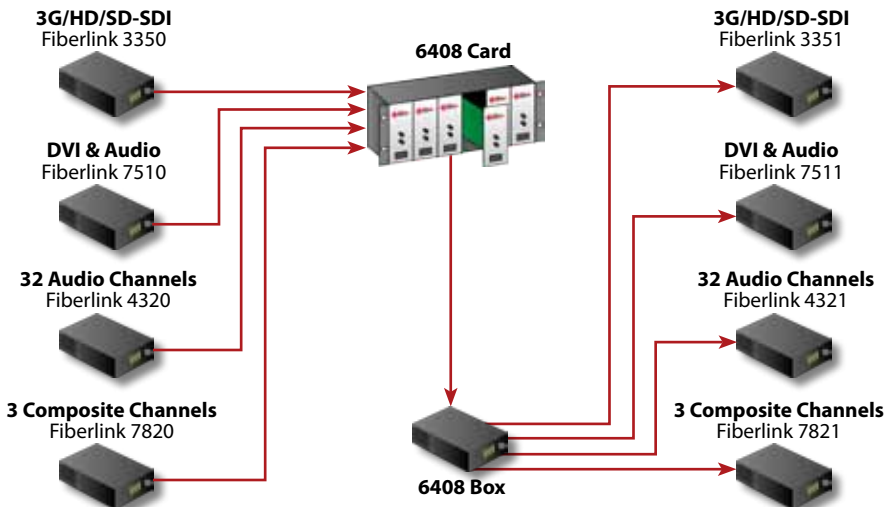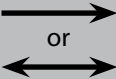**Also from CSI: Scan Do® Scan Converters and Deuce® Video Scalers**

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Sales

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6400 CWDM Series

Coarse wave division multiplexers (CWDM) allow 4, 8 or 16 fiber optic links to operate at different wavelengths over a single fiber

Ideal Applications:

The 6400 Series is ideal for virtually every fiber optic application to reduce fiber usage, consolidate signals where fiber capacity is limited and maximize the bandwidth of single mode fiber.

3G/HD/SD-SDI
Fiberlink 3350

DVI & Audio
Fiberlink 7510

32 Audio Channels
Fiberlink 4320

3 Composite Channels
Fiberlink 7820

6408 Card

6408 Box

3G/HD/SD-SDI
Fiberlink 3351

DVI & Audio
Fiberlink 7511

32 Audio Channels
Fiberlink 4321

3 Composite Channels
Fiberlink 7821

Signal	No. Optical Signals	Direction
All Types	4, 8 or 16	→ or ←

Features

Combine 4, 8 or 16 optical signals at different wavelengths onto a single fiber.

May be used to transmit separate optical signals in the same direction or in opposite directions in the same unit

Works with all Fiberlink® one-way and two-fiber two-way systems

Available in box and card versions

Available with LC or ST type connectors

Typically used in pairs.
Each unit sold separately

No power required

4 and 8 channel card version fills two slots in 6000A card cage

16 channel card version fills three slots in 6000A card cage

Ordering Information

Part Number	Description
6404-B7y	4 Channel CWDM, Box Version
6404-C7y	4 Channel CWDM, Card Version
6408-B7y	8 Channel CWDM, Box Version
6408-C7y	8 Channel CWDM, Card Version
6416-B7y	16 Channel CWDM, Box Version
6416-C7y	16 Channel CWDM, Card Version

y: S   ST Connector
      L   LC Connector

General Specifications

Channels:	4, 8 or 16
Directionality:	Each port can communicate in either direction (In or Out) independent of other ports
Connectors:	ST or LC
Fiber Type:	Single Mode
Maximum Insertion Loss:	4 Channel: 2 dB 8 Channel: 3 dB 16 Channel: 5.5 dB
Box Dimensions	4 & 8 Channel Versions: 1.2 H x 5 W x 7 D (inches) 30 H x 127 W x 178 D (mm) 16 Channel Version: 1.75 H x 16.75 W x 10D (inches) 44 H x 425 W x 254 D (mm)
Slots filled in 6000A Card Cage:	4 & 8 Channel version fills 2 slots 16 Channel version fills 3 slots
Power Requirements:	No power required
Operating Temperature:	-5º C to +60º C

Wavelengths (in nanometers)

4 Channel Version	1570, 1550, 1530, 1510
8 Channel Version	1610, 1590, 1570, 1550, 1530, 1510, 1490, 1470
16 Channel Version	1610, 1590, 1570, 1550, 1530, 1510, 1490, 1470, 1450, 1430, 1410, 1390, 1370, 1350, 1330, 1310

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6400 CWDM Series

GSA Schedule
Contract GS-03F-5063C

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You may be interested in the Fiberlink 6500 Series:

Passive optical splitter that allows transmission from one fiber optic transmitter to multiple receiver units by "splitting" optical power across units.

You may be interested in the Fiberlink 6400 WDM Series:

Passive optical wave division multiplexers that allow two fiber optic links to operate at different wavelengths over a single fiber

Sales

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Made in the USA

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

Box or Card

Ideal Applications:

Remote Court Arraignment, Videoconferencing

Signal	No. Optical Signals	Direction
All Types	2	→ or ⟷

Features

Passive wave division multiplexers (WDMs) combine two optical signals at different wavelengths onto a single fiber

May be used to transmit two separate optical signals in the same direction or in opposite directions
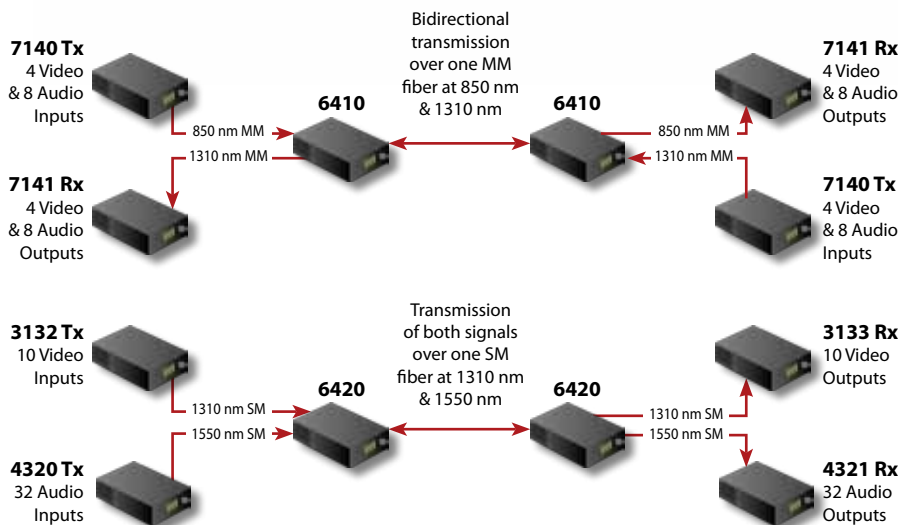
Works with all Fiberlink® one-way systems

Typically used in pairs. Each unit sold separately

No power required

Models available for use with either single mode or multimode fiber

Available with either ST or FCPC connectors

Card version fills one slot in 6000A card cage

7140 Tx 4 Video & 8 Audio Inputs

7141 Rx 4 Video & 8 Audio Outputs

Bidirectional transmission over one MM fiber at 850 nm & 1310 nm

6410

850 nm MM
1310 nm MM

6410

850 nm MM
1310 nm MM

7141 Rx 4 Video & 8 Audio Outputs

7140 Tx 4 Video & 8 Audio Inputs

3132 Tx 10 Video Inputs

4320 Tx 32 Audio Inputs

Transmission of both signals over one SM fiber at 1310 nm & 1550 nm

6420

1310 nm SM
1550 nm SM

6420

1310 nm SM
1550 nm SM

3133 Rx 10 Video Outputs

4321 Rx 32 Audio Outputs

Ordering Information

Part Number	Description	Type of Fiber
6410-Bz	WDM; 850/1310nm Box Version	MM
6410-Cz	WDM; 850/1310nm Card Version	MM
6420-Bz	WDM; 1310/1550nm Box Version	SM
6420-Cz	WDM; 1310/1550nm Card Version	SM

Part Number Suffix Codes:

z: S   ST Connector
    F   FCPC Connector

Sales

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General Specifications

Number of Fibers	1
Operating Wavelength	6410: 850 / 1310nm, Multimode 6420: 1310 / 1550nm, Single Mode
Insertion Loss (each output)	6410: 1.0 to 2.0 dB 6420: 0.5 to 1.5 dB
Power Requirements	none
Operating Temperature Range	-35° to +74° C
Relative Humidity	10% - 95% (non-condensing)
Optical Connectors	ST or FCPC
Physical Size	1.2 H x 5 W x 7 D (inches) 30 H x 127 W x 178 D (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots Filled in 6000A Card Cage	1

You may be interested in the Fiberlink 6400 CWDM Series:

Complex wave division multiplexers allow 4, 8 or 16 fiber optic links to operate at different wavelengths over a single fiber

You may be interested in the Fiberlink 6500 Series:

Passive optical splitter that allows transmission from one fiber optic transmitter to multiple receiver units by "splitting" optical power across units.

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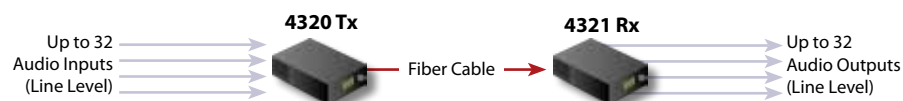
Audio Only

4320 Audio Series
Thirty-two independent audio channels digitially transmitted over one fiber with optional redundancy

Signal	Channels	Direction
Audio	32	→

Ideal Applications:

Rental, Staging, Theater, Stadiums, Theme Parks, Broadcast

4320 Tx   **4321 Rx**

Up to 32 Audio Inputs (Line Level) → Fiber Cable → Up to 32 Audio Outputs (Line Level)

Ordering Information

Part Number	Description	Fiber Cores
4320-z^1z^2-y^1y^2-pp	Transmitter, Box Version	1
4321-z^1z^2-y^1y^2-pp	Receiver, Box Version	1

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America	AU - Australia	EU - Europe
JP - Japan	UK - United Kingdom	

z_1 = optical connector type for main output (4320) and main input (4321). An option **must** be specified.
- S   ST connector
- F   FC connector

y_1 = wavelength selection for main output (4320) and main input (4321). An option **must** be specified.
- 1   850 nm multimode
- 3   1310 nm multimode
- 7   1310 nm single mode
- 9   1550 nm single mode

z_2 = optical connector type for **optional** second output (4320) and input (4321).
- N   no second input/output
- S   ST connector
- F   FC connector

y_2 = wavelength selection for **optional** second/redundant output (4320) and input (4321).
- 0   no second input/output
- 1   850 nm multimode
- 3   1310 nm multimode
- 7   1310 nm single mode
- 9   1550 nm single mode

Features

Transmits over one multimode or single mode fiber at 850, 1310 or 1550 nm

Optional redundant optical input/output

System consists of transmitter and receiver unit

No adjustments; pure digital processing and transmission

24 bit/96 kHz sampling; maximum audio level +24 dBu

20 Hz to 20 kHz frequency response

Line level, balanced or unbalanced audio operation

Indicator LEDs monitor audio signals and power

Wide range internal power supply

Unit stands 1 RU high. Rackmount ears are included

Sales

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Audio Specifications

Number of Audio Channels	32, balanced or unbalanced
Frequency Response	20 Hz - 20 kHz, +0/-0.5 dB
Bits-per-Sample/Sampling Rate	24 bits; 96 kHz
Maximum Audio Level	+24 dBu
SNR (A-Weighted)	95 dB
THD+N	0.002%; 20 Hz - 20 kHz
Channel Phase Differential	0.1°
System Latency	200 uS + fiber cable propagation delay (typically 5 uS/km of fiber)
Input Impedance	600 Ohms terminated; 24 k Ohms unterminated
Output Impedance	50 Ohms
Audio Connectors	Removable screw terminal
Switches	Dip switches to select input termination, balanced or unbalanced input/output. Selectable on a per-channel basis

General Specifications

LED Indicators	Power; Audio Present (per channel);
Power Requirements*	95-250 volts AC, 47-63 Hz
Operating Temperature Range	-35° to +55° C
Relative Humidity	10%-90% (non-condensing)
Optical Connectors	ST or FCPC
Operating Wavelength	850, 1310 or 1550 nm
Physical Size	1.75 H x 16.75 W x 10 D (inches) 44 H x 425 W x 254 D (mm) Unit stands 1 RU high
Weight	Approximately 5 lbs.; 2.25 kg

About CSI

Communications Specialties, Inc. (CSI) is an award-winning manufacturer of Pro A/V products for the distribution, conversion or transmission of television and computer video signals, including fiber optic transmission systems, scan converters and video scalers. The company was founded in 1983 by veterans of the broadcast industry. Since then, CSI has managed to consistently design innovative products that are used worldwide by Fortune 500 Companies in a variety of markets such as Broadcast/Professional A/V, Video Conferencing, Education, Home Theater, Security, ITS, Industrial Monitoring, and more!

Also from CSI: Scan Do® Scan Converters and Deuce® Video Scalers

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

4320 Audio Series

GSA Schedule
Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
850 MM	0-20	0-2
1310 MM	0-25	0-10
1310 SM	0-23	0-55
1550 SM	0-25	0-80

SM = Single Mode Fiber
MM = MultiMode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor. See website for terms and conditions.

Sales

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4160 Audio Series
Sixteen independent audio channels digitially transmitted over one fiber with optional redundancy

Ideal Applications:

Rental, Staging, Theater, Stadiums, Theme Parks, Broadcast

Signal	Channels	Direction
Audio	16	→

4160 Tx — **4161 Rx**

Up to 16 Audio Inputs (Line Level) → Fiber Cable → Up to 16 Audio Outputs (Line Level)

Features

Transmits over one multimode or single mode fiber at 850, 1310 or 1550 nm

Optional redundant optical input/output

System consists of transmitter and receiver unit

No adjustments; pure digital processing and transmission

24 bit/96 kHz sampling; maximum audio level +24 dBu

20 Hz to 20 kHz frequency response

Line level, balanced or unbalanced audio operation

Indicator LEDs monitor audio signals and power

Wide range internal power supply

Unit stands 1 RU high. Rackmount ears are included

Ordering Information

Part Number	Description	Fiber Cores
4160-z_1z_2-y_1y_2-pp	Transmitter, Box Version	1
4161-z_1z_2-y_1y_2-pp	Receiver, Box Version	1

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America   AU - Australia   EU - Europe
JP - Japan   UK - United Kingdom

z_1 = optical connector type for main output (4160) and main input (4161). An option **must** be specified.
- S   ST connector
- F   FC connector

y_1 = wavelength selection for main output (4160) and main input (4161). An option **must** be specified.
- 1   850 nm multimode
- 3   1310 nm multimode
- 7   1310 nm single mode
- 9   1550 nm single mode

z_2 = optical connector type for **optional** second output (4160) and input (4161).
- N   no second input/output
- S   ST connector
- F   FC connector

y_2 = wavelength selection for **optional** second/redundant output (4160) and input (4161).
- 0   no second input/output
- 1   850 nm multimode
- 3   1310 nm multimode
- 7   1310 nm single mode
- 9   1550 nm single mode

Sales

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Audio Specifications

Number of Audio Channels	16, balanced or unbalanced
Frequency Response	20 Hz - 20 kHz, +0/-0.5 dB
Bits-per-Sample/Sampling Rate	24 bits; 96 kHz
Maximum Audio Level	+24 dBu
SNR (A-Weighted)	95 dB
THD+N	0.002%; 20 Hz - 20 kHz
Channel Phase Differential	0.1°
System Latency	200 uS + fiber cable propagation delay (typically 5 uS/km of fiber)
Input Impedance	600 Ohms terminated; 24 k Ohms unterminated
Output Impedance	50 Ohms
Audio Connectors	Removeable screw terminal
Switches	Dip switches to select input termination, balanced or unbalanced input/output. Selectable on a per-channel basis

General Specifications

LED Indicators	Power; Audio Present (per channel)
Power Requirements*	95-250 volts AC, 47-63 Hz
Operating Temperature Range	-35° to +55° C
Relative Humidity	10%-90% (non-condensing)
Optical Connectors	ST or FCPC
Operating Wavelength	850, 1310 or 1550 nm
Physical Size	1.75 H x 16.75 W x 10 D (inches) 44 H x 425 W x 254 D (mm) Unit stands 1 RU high
Weight	Approximately 5 lbs.; 2.25 kg

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
850 MM	0-20	0-2
1310 MM	0-25	0-10
1310 SM	0-23	0-55
1550 SM	0-25	0-80

SM = Single Mode Fiber
MM = MultiMode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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Also from CSI: Scan Do® Scan Converters and Deuce® Video Scalers

4040 Audio Series
Four independent audio channels
digitally transmitted over one fiber

Ideal Applications:
Rental, Staging, Education, Broadcast

Box or Card

Signal	Channels	Direction
Audio	4	⟶

Features

Transmits over one multimode or single mode fiber at 850, 1310 or 1550 nm

No adjustments; pure digital processing and transmission

24 bit/96 kHz sampling; maximum audio level +24 dBu

20 Hz to 20 kHz frequency response

Line level, balanced or unbalanced audio operation

Indicator LEDs monitor audio signals and power

Wide range power supply allows operation from low voltage AC and DC sources

Card version fills one slot in 6000A card cage

System consists of transmitter and receiver unit; card or box version. Each end, plus power supply, must be purchased separately.

RoHS Compliant

4040 Tx → Fiber Cable → **4041 Rx**

Four Audio Inputs (Line Level) → → Four Audio Outputs (Line Level)
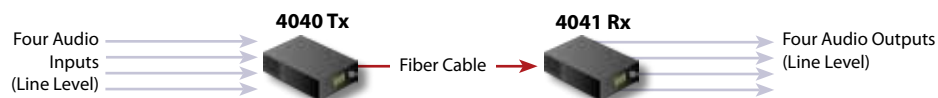
Ordering Information

Part Number	Description	Fiber Cores
4040-Bxy	Transmitter, Box Version	1
4040-Cxy	Transmitter, Card Version	1
4041-Bxy	Receiver, Box Version	1
4041-Cxy	Receiver, Card Version	1
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America   AU - Australia   EU - Europe
JP - Japan   UK - United Kingdom

Part Number Suffix Codes:

x: 1   850 nm Multimode
      3   1310 nm Multimode
      7   1310 nm Single Mode
      9   1550 nm Single Mode

y: S   ST Connector
      F   FCPC Connector

Audio Specifications

Number of Audio Channels	4, balanced or unbalanced
Frequency Response	+0/-0.5 dB, 20 Hz - 20 kHz
Bits-per-Sample/Sampling Rate	24 bits; 96 kHz
Maximum Audio Level	+24 dBu
SNR (A-Weighted)	95 dB
THD+N	0.002%, 20 Hz - 20 kHz
Channel Phase Differential	$\pm 0.1°$
System Latency	200 uS + fiber cable propagation delay (typically 5 uS/km of fiber)
Crosstalk	Min. 95 dB (1 kHz)
Input Impedance	600 Ohms terminated; >24 k Ohms unterminated
Output Impedance	50 Ohms
Audio Connectors	Removable screw terminal
Switches	Dip switches to select input termination, balanced or unbalanced input/output. Selectable on a per-channel basis

General Specifications

LED Indicators	Power; Audio Present (per channel); Alarm LED (card version only)
Power Requirements*	9-24 volts AC or DC, 5 watts
Operating Temperature Range	-35° to +60° C
Relative Humidity	10%-90% (non-condensing)
Optical Connectors	ST or FCPC
Operating Wavelength	850, 1310 or 1550 nm
Physical Size	6.5 W x 1.15 H x 8 L (inches) 165 W x 29 H x 203 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots Filled in 6000A Card Cage	1

* For operation from 95-250VAC, 50/60Hz, a PDPS-1 plug-in adapter is required.

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4040 Audio Series

GSA Schedule Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
850 MM	0-20	0-2
1310 MM	0-25	0-10
1310 SM	0-23	0-55
1550 SM	0-25	0-80

SM = Single Mode Fiber
MM = MultiMode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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Specialty Data

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XC/RC-1000A
Transmits eight independent contact closure or TTL signals over a single fiber

Box or Card

Ideal Applications:

Security Centers, Casinos, Power Plants and Industrial Facilities all make smart use of the XC/RC 1000A!
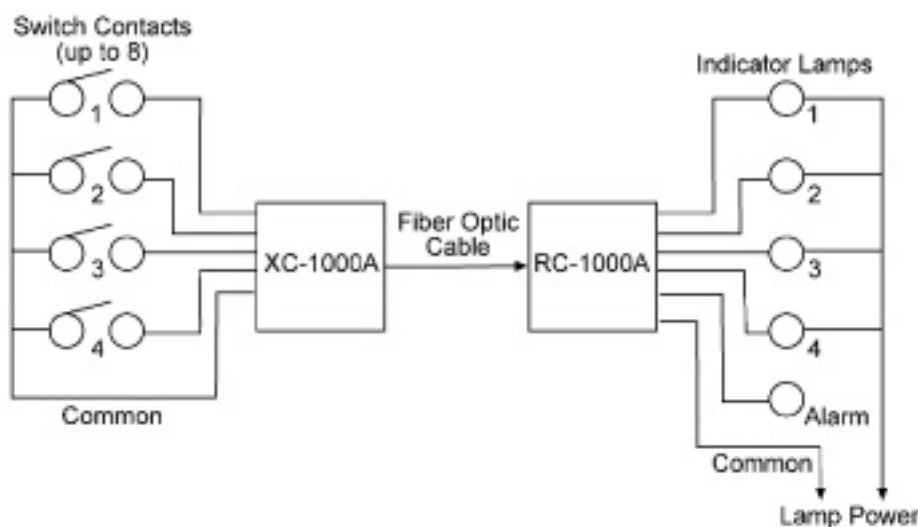
Signal	Channels	Direction
Contact, TTL	8	→

Features

Eight independent channels multiplexed over a single fiber

Channels support contact or TTL signals and may be used in any combination

LEDs on both units display channels in use

Open collector output is provided for loss of signal

System consists of transmitter and receiver unit; card or box version. Each end, plus power supply, must be purchased separately

Card version fills one slot in MCR-1000A rackmountable card cage

Ordering Information

Part Number	Description	Fiber Cores
XC-1000A-1	Transmitter Box, 850 nm, Multimode	1
XC-1000A-3	Transmitter Box, 1310 nm, Multimode	1
XC-1000A-7	Transmitter Box, 1310 nm, Single Mode	1
RC-1000A-1	Receiver Box, 850 nm, Multimode	1
RC-1000A-3	Receiver Box, 1310 nm, Multimode	1
RC-1000A-7	Receiver Box, 1310 nm, Single Mode	1
MCR-1000A*	Rackmountable Card Cage	
XP-1000A	115 volts AC, 50/60 Hz plug-in adaptor	
XP-1001	230 volts AC, 50/60 Hz plug-in adaptor	

*To order a rackmounted version of an XC-1000A or RC-1000A unit, add an "/MCR" to the part number followed by a "-1", "-3" or "-7". Each module occupies one slot in the MCR-1000A card cage. Please note that the card versions of these products are NOT compatible with the model 6000A card cage used with most Fiberlink products.

Data Specifications

Number of Channels	8
Transmitter Input	Contact closure or TTL
Receiver Output	Contact closure or TTL
Contact Closure Rating	0.5A, resistive (10 VA)
Relay Status	Normally open
Speed of Response	2 msec typical

General Specifications

Number of Fibers	1
Operating Temperature	0 to +50° C
Operating Power (per unit)	+10 to +18 volts DC @ 200 mA or +10 to +18 volts AC rms @ 200 mA
Dimensions	5.75 W x 1.75 H x 4 L (inches) 146 W x 45 H x 102 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Optical Connectors	ST: multimode; FCPC: single mode
Optical Wavelength	850 or 1310 nm
Optical Fiber	50 or 62.5 micron multimode fiber 8/10 micron single mode fiber

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XC/RC-1000A

GSA Schedule
Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Fiber Type	Loss(dB)
50 micron	0-8
62.5 micron	0-10
8/10 micron	0-10

For system to operate properly, operating loss budget must not be exceeded.

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The **Fiberlink®** line offers an extensive and affordable family of fiber optic transmission systems for the Professional A/V marketplace and includes several ground-breaking products for the transmission of high-resolution RGB signals. Systems for point-to-point and point-to-multipoint signal distribution make these products highly desirable for any Pro A/V architecture. New products are constantly being designed and developed and you can get the latest information at commspecial.com

Also from CSI: Scan Do® Scan Converters and Deuce® Video Scalers

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Made in the USA

FIBERLINK®
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XRD-8050
Fiber optic data transmission for
CALTRANS 170 or 179 series and
NEMA traffic signal controller applications

Ideal Applications:
Intelligent Transportation, Traffic and Control

Signal	Channels	Direction
CALTRANS /NEMA	Dual	←→

Features

Implements a fiber optic master/local data bus for traffic signal controller networks
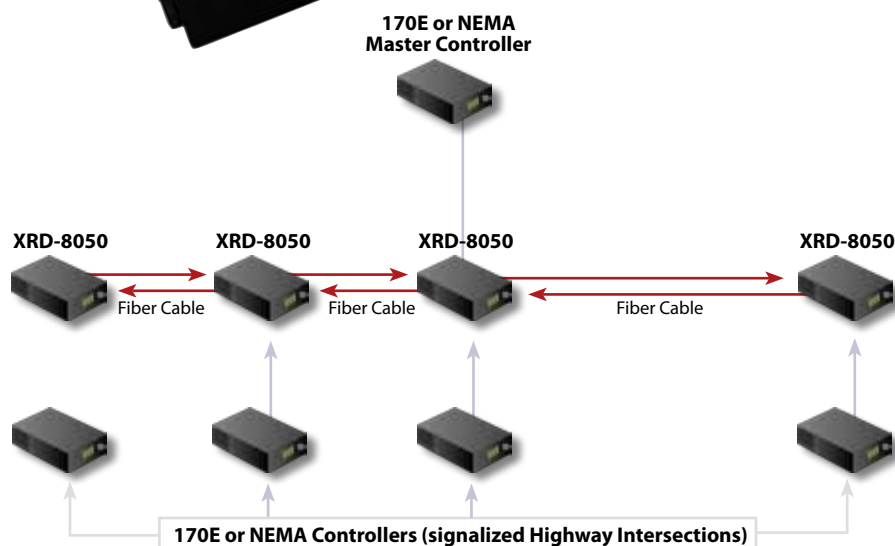
Works with CALTRANS 170-Series, CALTRANS 179-Series and NEMA controllers

Each transceiver, plus power supply, must be purchased separately

Units are "daisy-chained" in a linear multi-drop configuration

User-adjustable anti-streaming time-out feature

12-hour internal battery back-up

Meets CALTRANS and NEMA traffic signal control equipment environmental requirements

170E or NEMA Master Controller

XRD-8050   **XRD-8050**   **XRD-8050**   **XRD-8050**

Fiber Cable   Fiber Cable   Fiber Cable

170E or NEMA Controllers (signalized Highway Intersections)

Ordering Information

Part Number	Description	Number of Fibers
XRD-8050-1	Transmitter Box, 850 nm, Multimode	4
XRD-8050-3	Transmitter Box, 1310 nm, Multimode	4
XRD-8050-7	Transmitter Box, 1310 nm, Single Mode	4
XP-1000AW	115 volts AC, 50/60 Hz plug-in adaptor	
XP-1001W	230 volts AC, 50/60 Hz plug-in adaptor	

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Data Specifications

Number of Channels	1
Number of Outputs per Channel	2
System Protocol:	RS-232
Control Signals:	RTS, CTS, DTR, DCD, DSR
Transmission Format	Asynchronous
System Bandwidth	0-150 Kb/sec
Signal Connectors	DB-25S

General Specifications

Number of Fibers	4
Operating Temperature	-37 to +74ºC ambient
Operating Power (per unit)	+12 to +18 volts DC or AC @ 300 mA max. provided by external power source
Dimensions	7 W x 5 H x 2 L (inches) 128 W x 127 H x 51 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Optical Connectors	ST: multimode; FCPC: single mode
Optical Wavelength	850 or 1310 nm
Optical Fiber	50 or 62.5 micron multimode fiber 8/10 micron single mode fiber
Indicator LEDs	Anti-streaming, TD1, RD1, TD2, RD2, power
Shock	Per military specification MIL-STD-810D, Method 514.1, equipment class G

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XRD-8050

Operating Loss Budget & Maximum Usable Distance*

Fiber Type	Loss(dB)
50 micron	0-12
62.5 micron	0-15
8/10 micron	0-17

For system to operate properly, operating loss budget must not be exceeded.

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Also from CSI: Scan Do® Scan Converters and Deuce® Video Scalers

IRIG

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

Ideal Applications:
Military and the Aerospace Industries

XA-1900

IRIG in

IRIG Time Code Generator

Fiber Cable

Fiber optic cable can be 1-3 km in length between points!

XR-1900

IRIG out

XR-1900

IRIG out

RA-1900 (Last point on Bus)

IRIG out

XA-1903

IRIG in

IRIG Time Code Generator

Fiber Cable

Fiber Cable

Fiber Cable

XR-1900

IRIG out

XR-1900

IRIG out

RA-1900 (Last point on Bus)

IRIG out

FIBERLINK®

CU20030325

IRIG Receiver
Model: RA-1900-1

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Long Island, NY U.S.A.   www.commspecial.com

Signal	Channels	Direction
XA-1900/RA-1900 - Analog		
IRIG	1	→
XR-1900 - Analog		
IRIG	1	↔
XA-1903 - Analog		
IRIG	1	→

Features

Transmits IRIG and similar NASA and NBS standard instrumentation time-code formats up to 100 kHz

Combinations of four different units may be configured to provide point-to-point, point-to-multipoint or drop-and-repeat signal distribution. Each unit must be purchased separately

Built-in regulated power supplies allow operation from unregulated AC or DC sources

Transmits at 850 nm or 1310 nm over standard multimode or single mode fiber

System can be configured for four wire modem or AFSK applications

XA/RA-1900A and XR-1900 models may be mounted in the MCR-1000A card cage. The XA-1903 is provided in a 19" rackmountable enclosure

Ordering Information

Part Nunmer	Description	Number of Fibers
XA-1900-1	Transmitter Box, 850 nm, Multimode	1
XA-1900-3	Transmitter Box, 1310 nm, Multimode	1
XA-1900-7	Transmitter Box, 1310 nm, Single Mode	1
RA-1900-1	Receiver Box, 850 nm, Multimode	1
RA-1900-3	Receiver Box, 1310 nm, Multimode	1
RA-1900-7	Receiver Box, 1310 nm, Single Mode	1
XR-1900-1	Transceiver Box, 850 nm, Multimode	2
XR-1900-3	Transceiver Box, 1310 nm, Multimode	2
XR-1900-7	Transceiver Box, 1310 nm, Single Mode	2
XA-1903-1	Transmitter Box, 850 nm, Multimode	10
XA-1903-3	Transmitter Box, 1310 nm, Multimode	10
MCR-1000A*	Rackmountable Card Cage	
AP-1000	Adaptor plate for mounting XA/RA-1900 units within MCR-1000A card cage	
XP-1000A	115 volts AC, 50/60 Hz plug-in adaptor	
XP-1001	230 volts AC, 50/60 Hz plug-in adaptor	

*To order a rackmounted version of the XR-1900, add "/MCR" to the part number, followed by a "-1", "-3" or "-7". To order rackmounted versions of the XA/RA-1900, order an AP-1000 for use with each unit. Each module occupies one slot in the MCR-1000A card cage. Please note that the card versions of these products are NOT compatible with the model 6000A card cage used with most Fiberlink products.

The XA-1903 is provided in a 19" rackmountable enclosure.

Sales

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Data Specifications

Number of Channels	1
Number of Outputs per Channel	XA/RA/XR-1900: 1, XA-1903: 10
IRIG Compatibility	A through H
System Bandwidth (+0, -3 dB)	20 Hz to 100 kHz
Input/Output Load Impedance	600 Ohms nominal
Input/Output Signal Voltage	1 volt rms
Signal/Noise Ratio	67 dB typical
Noise Floor (full bandwidth)	1.3 mv rms maximum

General Specifications

Number of Fibers	XA/RA-1900: 1 fiber XR-1900: 2 fibers XA-1903: 10 fibers
Operating Temperature	-20 to +60° C
Operating Power (per unit)	+15 to +25 volts DC @ 250 mA or 14 to 18 volts AC, 50/60 Hz
Dimensions	XA-1900 and RA-1900: 5 W x 1.25 H x 2.5 L (inches) 127 W x 32 H x 64 L (mm) XR-1900: 5.75 W x 1.25 H x 4 L (inches) 146 W x 32 H x 102 L (mm) XA-1903: 19 W x 1.75 H x 6.5 L (inches) 483 W x 45 H x 165 L (mm)
Weight	XA-1900, RA-1900, XR-1900: Approx. 1 lb; 0.45 kg XA-1903: Approx. 3 lbs; 1.36 kg
Optical Connectors	ST: Multimode, FCPC: Single Mode
Optical Wavelength	850 nm/MM, 1310 nm/MM, 1310 nm/SM
Optical Fiber	50 or 62.5 micron multimode fiber, 8/10 micron single mode

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XA/RA-1900A, XR-1900, XA-1903

Operating Loss Budget & Maximum Usable Distance*

Fiber Type	Loss(dB)
50 micron	0-10
62.5 micron	0-13
8/10 micron	0-10

For system to operate properly, operating loss budget must not be exceeded.

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Test Equipment

FIBERLINK®
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Optical Testing Devices
Light sources and an optical power meter allow for convenient, on-site testing of fiber networks during construction and maintenance procedures

Part #	Description
6610	Visible Light Source
6615	Optical Power Meter
6620	Three Wavelength Light Source

Features

Three separate optical testing devices for use in the field help to ensure that fiber networks are functioning properly and loss budgets are met.

Fiberlink® Three Wavelength Light Source

- Laser output at wavelengths of 850, 1310 and 1550 nm
- Works with single mode and multimode fiber
- Output via ST connectors; jumper cables or ST/FC adaptors may be used
- Rechargeable battery provides up to four hours of operating power

Fiberlink® Optical Power Meter

- Measures the strength of optical signals at 850, 980, 1310 and 1550 nm wavelengths
- Gain and loss are accurately measured from -50 to +10 dBm
- 0.01 resolution

Fiberlink® Optical Power Meter (continued)

- Three AAA batteries provide up to 360 hours of operating power
- Works with single mode or multimode fiber; ST, FC or SC connectors

Fiberlink® Visible Light Source

- Visible 650 nm laser output
- Works with single mode and multimode fiber
- Output via FC connectors; jumper cables, ST or SC adaptors may be used
- Two AA batteries provide up to 30 hours of operating power
- Ideal for identifying fiber breaks and individual fibers within fiber bundles

Ordering Information

Part Number	Description
6610	Visible Light Source
6615	Optical Power Meter
6620	Three Wavelength Light Source

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Visible Light Source Specifications*:

Output Power	1 mW
Operating Wavelength	650 nm
Fiber Types Supported	Multimode and single mode
Optical Connector	Universal, supports all types of ferrules
Operating Modes	Continuous or pulsing (2 Hz rate)
Power	2 x AA batteries, included
Battery Life	Approx. 30 hours using alkaline batteries
Operating Temperature	-10°C to +40°C
Dimensions	3.95" x 2" x 1" (100 x 50 x 35 mm)
Weight	2 oz. (50 grams)

Optical Power Meter Specifications:

Wavelength Supported	850, 980, 1310, 1550 nm, switch selectable
Optical Connector	Universal adaptor supports all ferrules
Power Measurement Range	-50 to +10 dBm
Accuracy	+/- 2.5%
Display Resolution	0.01
Readout	dBm or mW, switch selectable
Power	3 x AAA batteries, included
Battery Life	Approximately 360 hours using alkaline batteries; Audio Off after 10 minutes
Operating Temperature	-10°C to +60°C
Dimensions	3.6" x 2.6" x 0.65" (90 x 55 x 16mm)
Weight	3 oz. (80 grams)

Three Wavelength Light Source Specifications*:

Operating Wavelengths	850, 1310, 1550 nm
Emitter Types	850 - VCSEL, 1310/1550 - Laser
Output Power (dBm), +/- 20%	850 nm: -3 dBm; 1310 nm: -7 dBm; 1550 nm: -7 dBm
Fiber Types Supported	850 nm: multimode; 1310 nm & 1550 nm: multimode & single mode
Optical Connector	ST, FC, SC adapters
Power	8.4v rechargeable NiMH battery included Universal input AC charger included. 9 volt battery may be used but is not rechargeable
Battery Operating Time	Approximately 4 hours
Battery Recharge Time	Approximately 12 hours
Operating Temperature	-10°C to +40°C
Dimensions	6" x 3" x 1" (150 x 76 x 26mm)
Weight	6.7 oz. (180 grams)

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Optical Testing Devices

* Class I Laser Product complies with FDA performance standard for laser products, Title 21, Code of Federal Regulations, Sub-Chapter J

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Made in the USA

Rackmounts

MCR-1000A: Rackmountable Card Cage
3 RU high enclosure with positions for ten earlier generation Fiberlink units.

Part #	Description	Slots in Cage
MCR-1000A	Card Cage	10

Features

Rackmountable 19" card cage offers 10 positions for holding any combination of older generation Fiberlink transmitter, receiver or transceiver modules

Modules are either mounted on plug-in adapter plates (sold separately) or supplied in special rackmountable casings

Cage contains a 115/230 volts AC, 50/60 Hz power supply, detachable line cord, power switch and fuse

Electrical and optical signal connectors are provided on the rear of the enclosure

Removeable front plate is provided for protection and overall appearance

Ordering Information

Part Number	Description	Number of Positions
MCR-1000A	Rackmountable Card Cage	10
AP-1000	Adaptor Plate for mounting the following units: XA/RA-1000A, XA/RA-1900. One plate is required for each unit	1

Some Fiberlink models are available in rackmountable casings, identified by placing an "/MCR" after the part number.

These models are:

XC/RC-1000A/MCR

XT/RT-1000A/MCR

XR-2500A/MCR

XR-1900/MCR

See individual data sheets for more information on these products.

Sales

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General Specifications

Total Number of Positions	10
Finish	Clear anodized aluminum
Physical Size	19 W x 5.25 H x 10 D (inches) 483 W x 133 H x 255 D (mm)
Operating Temperature Range	-30 to +65 degrees C
Power Required	115 or 230 volts AC, 50/60 Hz 3.5 VA typical
Max. Total Load Current	3.3 A

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MCR-1000A

GSA Schedule
Contract GS-03F-5063C

About CSI

Communications Specialties, Inc. (CSI) is an award-winning manufacturer of Pro A/V products for the distribution, conversion or transmission of television and computer video signals, including fiber optic transmission systems, scan converters and video scalers. The company was founded in 1983 by veterans of the broadcast industry. Since then, CSI has managed to consistently design innovative products that are used worldwide by Fortune 500 Companies in a variety of markets such as Broadcast/Professional A/V, Video Conferencing, Education, Home Theater, Security, ITS, Industrial Monitoring, and more!

The **Fiberlink®** line offers an extensive and affordable family of fiber optic transmission systems for the Professional A/V marketplace and includes several ground-breaking products for the transmission of high-resolution RGB signals. Systems for point-to-point and point-to-multipoint signal distribution make these products highly desirable for any Pro A/V architecture. New products are constantly being designed and developed and you can get the latest information at commspecial.com

Our award-winning product line, the **Scan Do®** family of computer to video scan converters, has redefined industry standards in computer video to NTSC/PAL technology with unsurpassed performance in its price range. All models support high resolutions and refresh rates and are VGA and Mac® compatible. The feature-rich and versatile Scan Do family offers the widest range of scan converters on the market.

The award-winning, **Deuce®** video scalers convert NTSC and PAL to high-resolution, non-interlaced video and offer a far superior and affordable alternative to line doubling and quadrupling. The new generation of Deuce products offer a wide range of non-interlaced resolutions and refresh rates for every application, from professional A/V installations to home theater, including a model designed especially for use with HDTV displays.

Want to learn more about fiber?

Log on to commspecial.com for fiber related resources written for Pro A/V Professionals by Pro A/V Professionals!

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor. See website for terms and conditions.

Sales

CSI Communications Specialties, Inc.

631-273-0404 | commspecial.com
info@commspecial.com

UPDATED 2/6/2009

All specifications subject to change without notice. © 2009
Fiberlink and the starburst logo are registered trademarks of
Communications Specialties, Inc. CSI and the triangle designs
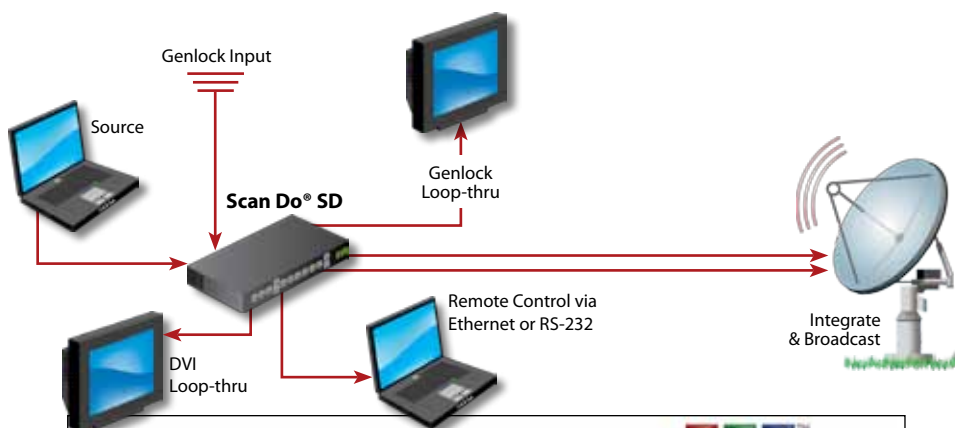are trademarks of Communications Specialties, Inc.

Made in the USA

6000A Rackmountable Card Cage

3 RU high enclosure with 20 positions for any combination of Fiberlink card modules. Power supply and alarm sensing module available.

Part #	Description	Slots in Cage
6000A	Card Cage	20
6010A	Power Supply	3
6020A	Alarm Module	1

Ordering Information

Part Number	Description	Number of Positions
6000A	Rackmountable Card Cage	20
6010A-pp	Universal Switching Power Supply	3
6020A	Alarm Sensing Module	1
6031	Single Filler Panel	1
6032	Double Filler Panel	2
6034	Quadruple Filler Panel	4

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
JP - Japan
AU - Australia
UK - United Kingdom
EU - Europe

Features

Rackmountable 19" card cage offers 20 positions for any combination of Fiberlink transmitter, receiver and transceiver card modules. (Please refer to the Fiberlink® products' data sheet for slot and power requirements)

Cage may be powered with optional 3-position plug-in power supply or with an external, customer-provided power source

Two power supplies may be used to provide redundant power

Optical signal input and output connectors on each card module are at the rear of the card cage

Optional alarm module indicates fault condition via an audible piezo sounder, blinking red LED and activation of isolated contacts for use with remote monitoring

Single and multiple position blank filler panels are available to conceal positions not in use

ROHS Compliant

About CSI

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Also from CSI: Scan Do® Scan Converters and Deuce® Video Scalers

Sales

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Card Cage Specifications:

Total Number of Positions	20
Finish	Clear, irridited aluminum
Physical Size	19 W x 5.25 H x 11 D (inches) 483 W x 133 H x 280 D (mm)
Operating Temperature Range	-35 to +75° C
Optional External Power Input*	8.7 to 12 VDC
Max. Allowable External Current*	11 amperes
External Power Input Connector	3 position terminal block

*The external power input connector is reverse-polarity protected but should be current limited and/or fused so that input current cannot exceed a maxium of 11 amperes

Universal Switching Power Supply Specifications:

Total Number of Positions	3
Input Voltage Range (continuous)	90 to 260 volts AC 47/63 Hz @ 2A max.
Output Power	8.0 volts DC +/-1% regulated @ 11 A max.
Output Protection	Overvoltage; crowbar, short circuit; current limiting
Input Protection	P/C fuse for catastrophic failure
Ripple and Noise	1% p-p, DC to 20 MHz
Operating Temperature Range	-35 to +75 degrees C
EMI compliance	FCC 20870 Class B EN 55022 Class B
Safety Compliance	CSA 22.3 No. 220, VDE EN 60 950, European CE
Input Power Connector	IEC 320

Alarm Sensing Module Specifications:

Total Number of Positions	1
Alarm Indications*	Blinking red LED, pulsing piezo sounder, external SPDT contact closures
External Contact Ratings	115/230 VAC 50/60 Hz 5 amperes resistive

* Note that the audible piezo sounder can be turned off via a front panel switch. The blinking red alarm LED and the activated external contacts cannot be deactivated until the fault condition is corrected.

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

6000A Card Cage

GSA Schedule
Contract GS-03F-5063C CE FC N12911

Want to learn more about fiber?

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Sales

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info@commspecial.com

Made in the USA

Scan Converters

Scan Do SD

DVI-I to SD-SDI Scan Converter with DVI or Analog RGB inputs.

NEW!

Convert your high-resolution DVI or Analog RGB computer sources into a SMPTE standard SD-SDI signal for broadcasting on air or integrating into a professional video production system.

Signals In	Signals Out
DVI Input or Analog RGB Up to 1920x1200	SD-SDI Copper NTSC, PAL

Genlock Input

Source

Scan Do® SD

Genlock Loop-thru

DVI Loop-thru

Remote Control via Ethernet or RS-232

Integrate & Broadcast

Standard Features

Digital DVI & Analog RGB Input Support

Supports SD-SDI output resolutions per SMPTE 259.

Advanced scaling algorithms and 10 bit processing provide exceptionally clean and accurate broadcast quality output.

Genlock with full phasing control locks SD-SDI output to black burst.

RS-232 ports enable remote control of the Scan Do SD.

Two coaxial outputs (SMPTE 259)

Zoom & Shrink horizontally and vertically while maintaining the aspect ratio or set each independently!

Precisely position your image horizontally and vertically.

Capture & Store EDID

Store & Recall Presets from the Front Panel with Preset Status LEDs

On Screen Display & Keypanel Lock Status LEDs

Alternate Function Button

Control your Scan Do® SD from anywhere in the world!

With onboard Ethernet and RS-232, the Scan Do SD allows you to control resolution, zoom, pan, anti-flicker reduction, test patterns and more!

Input Resolutions

DVI-I single link resolutions:

Up to 1920x1200 @ 60 Hz

Pixel Clock Frequency 25 to 165 MHz *(Input Pixel Clock Frequency cannot exceed 165 MHz)*

Output Resolutions

10-bit SD-SDI per SMPTE 259:

525/59.9/I (NTSC)   625/50/I (PAL)

Input/Output

Single link DVI-I with active loop-thru support;
includes 15 pin adapter for Analog RGBHV support

Two coaxial outputs; SMPTE 259M-C

Only one output format is available on all outputs at one time.

Video Processing

10 bit, all digital

Genlock

NTSC/PAL black burst

Coarse & fine phasing with a range of one output vertical period

Image Size & Positioning

Separate H & V positioning

Zoom and Shrink; H & V or together

Control Interfaces

RS-232 & 10/100 Base-T ethernet LAN port with internal HTML host

Front panel push button

Field upgradeable via Ethernet

Additional Features

• Variable flicker reduction

• Factory defaults reset

• RoHS compliant

• Test pattern generator: color bars at 100% and 75% Saturation

• Multiple preset storage and recall settings through remote control interfaces or front panel

• On Screen Display (OSD) & LED

• Rack mount kit included

Dimensions

16.75 W (without rackmount ears) x 1.75 H x 10 D (inches)

425 W x 44 H x 254 D (mm)

Weight: 5.5 pounds; 2.49 kg

Power

Internal universal input AC power supply

95 - 250 volts AC, 47 - 63 Hz, 20 watts, 68.24 BTU/Hr

Scan Do SD

DVI or Analog RGB Computer Video to SD-SDI Scan Converter

GSA Schedule
Contract GS-03F-5063C

UL   CE

Need 1080p?

Log on to scandohd.tv and learn about the Scan Do® HD DVI-I to 3G/HD/SD-SDI Scan Converter today!

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

Scan Do. HD

DVI-I to 3G/HD/SD-SDI Scan Converter now with DVI or Analog RGB inputs and 3G-SDI Output Support.

NEW!

Convert your high-resolution DVI or Analog RGB computer sources into a SMPTE standard 3G, HD or SD SDI signal for broadcasting on air or integrating into a professional video production system.
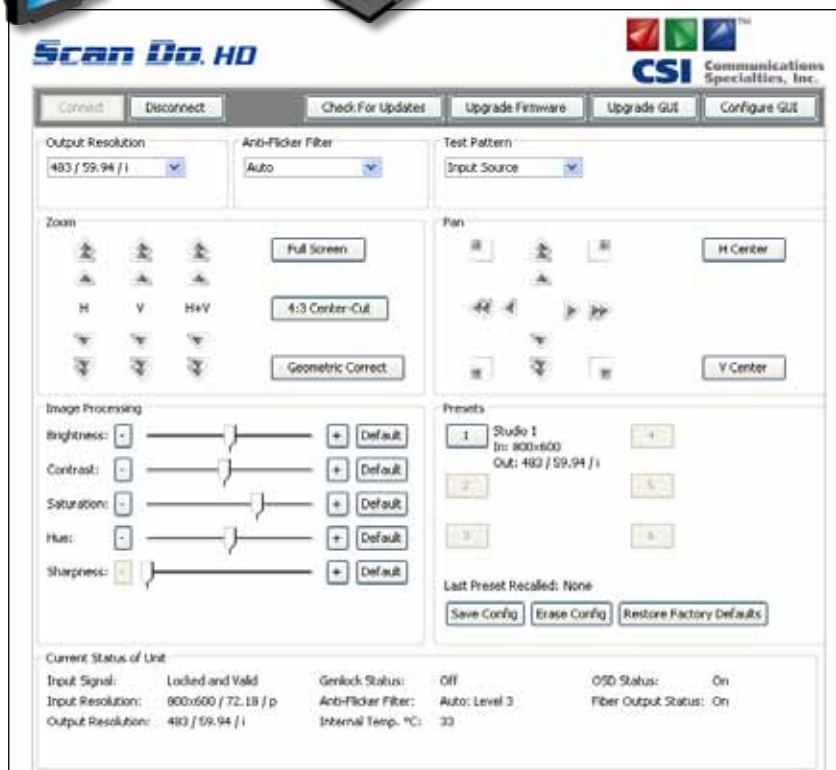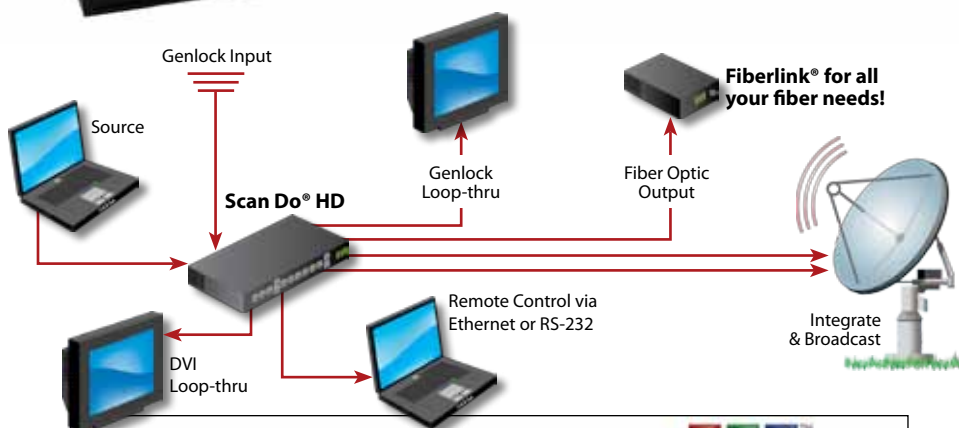
Signals In	Signals Out
DVI Input or Analog RGB Up to 1920x1200	3G/HD/SD-SDI Copper & Fiber Up to 1080p

New Features at a glance:

Digital DVI & Analog RGB Input Support

3G Output Support (SMPTE 424M-2006)

Store & Recall Presets from the Front Panel with Preset Status LEDs

Psf Output Support

Capture & Store EDID

SMPTE 297-2006 Compliant Fiber Optic Output

Fiber Optic, On Screen Display & Keypanel Lock Status LEDs

Alternate Function Button

Standard Features

Supports 3G SDI resolutions up to 1080p per SMPTE 424M-2006, HD SDI resolutions up to 1080i per SMPTE 292 and SD SDI resolutions per SMPTE 259.

Advanced scaling algorithms and 10 bit processing provide exceptionally clean and accurate broadcast quality output.

Genlock with full phasing control locks 3G/HD/SD-SDI output to tri-level sync or black burst.

Ethernet & RS-232 ports enable remote control of the HD.

Includes fiber optic output (SMPTE 297-2006) and two coaxial outputs (SMPTE 424M-2006, 292 and 259).

Complete set of Image processing controls and built-in variable flicker reduction.

Zoom & Shrink horizontally and vertically while maintaining the aspect ratio or set each independently!

Precisely position your image horizontally and vertically.

Control your Scan Do® HD from anywhere in the world!

With onboard Ethernet and RS-232, the Scan Do HD allows you to control resolution, zoom, pan, image processing controls, anti-flicker reduction, test patterns and more!

Genlock Input

Fiberlink® for all your fiber needs!

Source

Genlock Loop-thru

Fiber Optic Output

Scan Do® HD

Remote Control via Ethernet or RS-232

Integrate & Broadcast

DVI Loop-thru

Input Resolutions

DVI-I single link resolutions:

Up to 1920x1200 @ 60 Hz

Pixel Clock Frequency 25 to 165 MHz
(Input Pixel Clock Frequency cannot exceed 165 MHz)

Output Resolutions

10-bit 3G-SDI per SMPTE 424M-2006:

1080/60/P	1080/59.94/P
1080/50/P	

10-bit HD-SDI per SMPTE 292:

720/60/P	720/59.94/P
720/50/P	720/30/P
720/29.97/P	720/25/P
720/24/P	720/23.98/P
1035/60/I	1035/59.94/I
1080/60/I	1080/59.94/I
1080/50/I	1080/30/P
1080/30/PsF	1080/29.97/P
1080/29.97/PsF	1080/25/P
1080/25/PsF	1080/24/P
1080/24/PsF	1080/23.98/P
1080/23.98/PsF	

10-bit SD-SDI per SMPTE 259:

525/59.9/I (NTSC)	625/50/I (PAL)

Input/Output

Single link DVI-I with active loop-thru support; includes 15pin adapter for Analog RGBHV support

Two coaxial outputs; SMPTE 292M, 259M-C & 424M-2006 Level A

One optical output; SMPTE 297-2006 compliant, 1310 nm, single mode or multimode fiber, LC connector, -3.5 dBm nominal output power

Only one output format is available on all outputs at one time.

Processing Controls

Brightness	Contrast
Hue	Color Saturation
Sharpness	

Video Processing

10 bit, all digital

Genlock

NTSC/PAL black burst
or HD tri-level sync

3G/HD resolutions will genlock to NTSC/PAL black burst at the same vertical rate

H, V and Clock phasing with a range of one output vertical period and resolution of 840 ps

Image Size & Positioning

Separate H & V positioning

Zoom and Shrink; H & V or together

Control Interfaces

RS-232 & 10/100 Base-T ethernet LAN port with internal HTML host

Front panel push button

Field upgradeable via Ethernet

Additional Features

Variable flicker reduction

Test pattern generator: color bars at 100% and 75% Saturation

Multiple preset storage and recall settings through remote control interfaces or front panel

On Screen Display (OSD) & LED

Factory defaults reset

Rack mount kit included

RoHS compliant

Dimensions

16.75 W (without rackmount ears) x 1.75 H x 10 D (inches)

425 W x 44 H x 254 D (mm)

Weight: 5.5 pounds; 2.49 kg

Power

Internal universal input AC power supply

95 - 250 volts AC, 47 - 63 Hz, 20 watts 68.24 BTU/Hr

Scan Do HD

DVI or Analog RGB Computer Video to 3G/HD/SD-SDI Scan Converter

GSA Schedule Contract GS-03F-5063C

UL CE

The Scan Do HD works brilliantly with our Fiberlink 3350 3G/HD/SDI Series

Ordering Information

Part Number	Description
1298-pp	Scan Do® HD

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America	AU - Australia
JP - Japan	UK - United Kingdom
EU - Europe	

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Sales

CSI Communications Specialties, Inc.

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info@commspecial.com

Made in the USA

Video Scalers

Deuce®

The "original" affordable video scaler creates high resolution, film-quality images from standard video sources

Ideal Applications:

Presentation, Control Room, Theaters, Stadiums, Museums

Back Panel Drawing of Deuce

Signal Capability

Signals In

NTSC, PAL, SECAM, Composite, S-Video

Signals Out

RGBHV, RGBS, RGsB:
640x480, 800x600, 1024x768,
852x480 (16:9), 832x624, 1280x1024

Features

Intelligent video scaling to six output resolutions

Selectable output vertical refresh rates of 60 Hz and 75 Hz (60 Hz only at 1280 x 1024), allowing for brightest, flicker-free image

Advanced motion compensation when de-interlacing input video eliminates unwanted artifacts

Supports 16:9 displays, "letterbox" widescreen videotapes and DVD sources

Switchable composite and S-Video inputs in NTSC, PAL and SECAM standards

Two simultaneous outputs:
• VGA compatible on HD-15 connector
• RGBHV, RGBS or RGsB on BNC connectors

Processing controls for contrast, brightness, color saturation and hue

Horizontal and vertical positioning

Non-volatile memory remembers all settings

Lockout function of front panel controls

Universal input power supply

Ordering Information

Part Number	Description
2200-pp	Deuce
1119-006	6-ft. VGA extension cable
1119-025	25-ft. VGA extension cable
1119-50	50-ft. VGA extension cable
1119-100	100-ft. VGA extension cable
1143-012	12-ft. 5 x BNC to 5 x BNC
1143-025	25-ft. 5 x BNC to 5 x BNC
1143-050	50-ft. 5 x BNC to 5 x BNC
1143-100	100-ft. 5 x BNC to 5 x BNC
1206	6-ft. HD-15M to 5 x BNC cable
1207	6-ft. HD-15F to 5 x BNC cable

NOTE: Deuce is available with international line cords. Please specify when ordering.

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America	AU - Australia	EU - Europe
JP - Japan	UK - United Kingdom	

Sales

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info@commspecial.com

Input/Output:

Input Video Standards: NTSC, NTSC-Japan, PAL (B,D, G, H, I, M, N, N-3.58), SECAM

Input Types: Composite and S-Video (Y/C), both terminating in 75 Ohms

Input Connectors: Composite: BNC-F; S-Video: 4-pin mini-DIN-F

Input Formats: Normal (4:3), Letterbox (16:9)

Input Decoding: 8-bit Y, 8-bit C, and 16-bit YUV with comb filter processing

Output Types: HD-15F connector with standard VGA pin-out; 5 x BNC connectors which can be configured as RGBHV, RGBS or RGsB

Output Resolutions:

640 x 480	852 x 480 (16:9)
800 x 600	832 x 624
1024 x 768	1280 x 1024

Output Refresh Rates: 60 Hz, 75 Hz (selectable), not input locked

Equipment Included:

Deuce Intelligent Video Scaler

External universal input power supply

AC line cord

S-Video input cable

Composite video input cable with BNC/RCA adaptor

User manual

Power:

Separate universal input AC power supply.

Input: 95 volts AC to 250 volts AC, 47 to 63 Hz

Output: 5 volts DC at 3 A

UL/CSA/TUV/CE approved

Maximum specified power: 10 Watts

Dimensions:

7.25 W x 1.5 H x 8 D (inches)

184 W x 38 H x 203 D (mm)

Weight: Approx. 3 lbs, with power supply; 1.4 kg

About CSI

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Also from CSI: Fiberlink® and Scan Do® Scan Converters.

You can learn more about

fiber optic transmission,

scan conversion,

video scaling and more

online at commspecial.com

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor. See website for terms and conditions.

Sales

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info@commspecial.com

Deuce® MC

Video scaler, line doubler and line quadrupler with user-controlled, six-setting motion compensation feature

Deuce
Intelligent Video Scaler

Ideal Applications:

Presentation, Education, Museums, Control Rooms
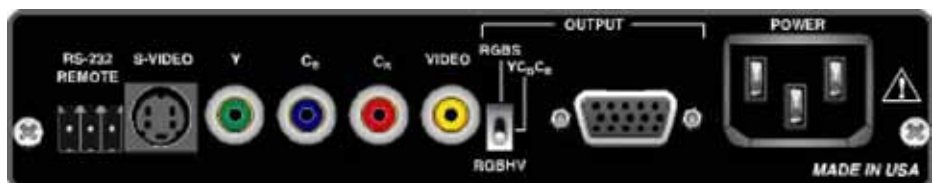
Back Panel Drawing of Deuce MC

Signal Capability

Signals In

NTSC, PAL, Composite, S-Video, Y-Cb-Cr

Signals Out

RGBHV, RGBS, Y-Cb-Cr

800x600, 852x480 (16:9), 1024x768, line double, line quadruple

Features

Intelligent video scaling to three resolutions, plus line doubling and line quadrupling

Output vertical refresh rate locked to input vertical refresh rate
(59.94 Hz NTSC; 50 Hz PAL)

Six user-selectable motion compensation settings using three different algorithms, applied individually or in combination
  -Static mesh
  (images with little or no motion)
  -Vertical temporal (standard video)
  -Adaptive frame
  (inverse 3:2 pulldown, for video originating from a film source)

Supports 16:9 "letterbox" videotape and DVD sources

Switchable composite, S-Video and Y-Cb-Cr component inputs in NTSC and PAL standards

VGA-compatible HD-15 connector provides RGBHV, RGBS or Y-Cb-Cr progressive scan output formats

RS-232 remote port for use with a media controller

Non-volatile memory stores all settings

Lockout function on front panel controls

Universal input power supply incorporated in chassis; no external power supply module

Ordering Information

Part Number	Description
2220-pp	Deuce MC
1119-006	6-ft. VGA extension cable
1119-025	25-ft. VGA extension cable
1119-50	50-ft. VGA extension cable
1119-100	100-ft. VGA extension cable
1206	6-ft. HD-15M to 5 x BNC cable
1210	12-ft. 3 x RCA Phono cable
1240	Rackmount for one 2220 unit
1241	Rackmount for two 2220 units

NOTE: Deuce MC is available with international line cords. Please specify when ordering.

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
JP - Japan

AU - Australia
UK - United Kingdom

EU - Europe

Sales

CSI **COMMUNICATIONS Specialties, Inc.**

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info@commspecial.com

Input/Output:

Input Video Standards: NTSC, PAL (B, G, H, I)

Input Types: Composite, S-Video (Y/C) and component Y-Cb-Cr, all terminating in 75 Ohms

Input Connectors: Composite: RCA-F; S-Video: 4-pin mini-DIN-F; Component: 3 RCA-F

Input Decoding: 16-bit YUV with adaptive 4H comb filter processing

Output Types: HD-15F connector with standard VGA pin-out which can be configured as RGBHV, RGBS or Y-Cb-Cr, selectable through rear panel switch

Output Refresh Rates: (locked to input)
    59.94 Hz (NTSC input)   50 Hz (PAL input)

Output Resolutions:
    800 x 600, 852 x 480 (16:9), 1024 x 768, line double, line quadruple

Six user-selectable motion compensation settings using three different algorithms, applied individually or in combination

Static mesh (images with no motion)
    Vertical temporal (standard video)
    Adaptive frame
    (inverse 3:2 pulldown, for video originating from a film source)

Remote Control: RS-232 on 3-pin "Phoenix" type connector

Equipment Included:

Deuce MC Intelligent Video Scaler

AC line cord

S-Video input cable

Composite video input cable with RCA male to RCA male

User Manual

Power:

Internal universal input AC power supply

Input: 85-265 volts AC, 47-63 Hz

UL/CSA/TUV/CE approved

Maximum specified power: 7 Watts

Dimensions:

7.25 W x 1.5 H x 8 D (inches)

184 W x 38 H x 203 D (mm)

Weight: Approx. 2 lbs; .91 kg

About CSI

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Intelligent Video Scaler

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Sales

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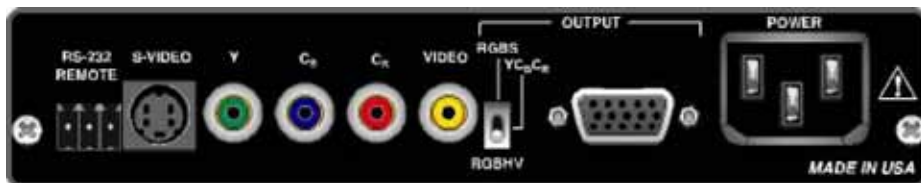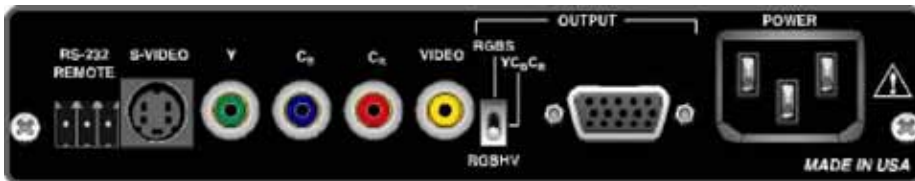**info@commspecial.com**

Deuce® HD

Video scaling and processing from standard TV video to five non-interlaced HDTV and DTV resolutions

Ideal Applications:

Presentation, Home Theater, Broadcast

Back Panel Drawing of Deuce HD

Signal Capability

Signals In

NTSC, PAL, Composite, S-Video, Y-Cb-Cr

Signals Out

RGBHV, RGBS, Y-Cb-Cr,

480p, 720p, 1080p, 1280x1024, 1366x768

Features

Intelligent video scaling to five HDTV and DTV resolutions

Output vertical refresh rate locked to input vertical refresh rate (59.94 Hz NTSC; 50 Hz PAL)

Three aspect ratio conversions from input to output:
-4:3 to Full Screen (4:3 or 16:9)
-4:3 to 4:3 in 16:9 screen
-16:9 to 16:9 (letterbox to full 16:9 screen)

Auto detects and applies best motion compensation algorithm, including inverse 3:2 pulldown (Adaptive Frame Mode)

Supports 16:9 "letterbox" videotape and DVD sources

Switchable composite, S-Video and Y-Cb-Cr, component inputs in NTSC and PAL standards

VGA-compatible HD-15 connector provides RGBHV, RGBS or Y-Cb-Cr progressive scan output formats

RS-232 remote port for use with a media controller

Non-volatile memory remembers all settings

Lockout function on front panel controls

Universal input power supply incorporated in chassis; no external power supply module

Ordering Information

Part Number	Description
2230-pp	Deuce HD
1119-006	6-ft. VGA extension cable
1119-025	25-ft. VGA extension cable
1119-50	50-ft. VGA extension cable
1119-100	100-ft. VGA extension cable
1206	6-ft. HD-15M to 5 x BNC cable
1210	12-ft. 3 x RCA Phono cable
1240	Rackmount for one 2230 unit
1241	Rackmount for two 2230 units

NOTE: Deuce HD is available with international line cords. Please specify when ordering.

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
JP - Japan
AU - Australia
UK - United Kingdom
EU - Europe

Input/Output:

Input Video Standards: NTSC, PAL (B, G, H, I)

Input Types: Composite, S-Video (Y/C) and component Y-Cb-Cr, all terminating in 75 Ohms

Input Connectors: Composite: RCA-F; S-Video: 4-pin mini-DIN-F; Component: 3 RCA-F

Input Decoding: 16-bit YUV with adaptive 4H comb filter processing

Output Types: HD-15F connector with standard VGA pin-out which can be configured as RGBHV, RGBS or Y-Cb-Cr, selectable through rear panel switch

Output Refresh Rates: (locked to input)
    59.94 Hz (NTSC input)   50 Hz (PAL input)

Output Resolutions:
    480p, 720p, 1080p, 1280 x 1024, 1366 x 768

Aspect Ratio Conversion:
    4:3 to full screen (either 4:3 or 16:9)
    4:3 to 4:3 in 16:9 screen
    16:9 to 16:9 (letterbox to full screen)

Auto detect and apply motion compensation, selecting from three algorithms
    Static mesh (images with no motion)
    Vertical temporal (standard video)
    Adaptive frame (inverse 3:2 pulldown, for video originating
    from a film source)

Remote Control: RS-232 on 3-pin "Phoenix" type connector

Equipment Included:

Deuce HD Intelligent Video Scaler

AC line cord

S-Video input cable

Composite video input cable with RCA male to RCA male

User Manua

Power:

Internal universal input AC power supply

Input: 85-265 volts AC, 47-63 Hz

UL/CSA/TUV/CE approved

Maximum specified power: 7 Watts

Dimensions:

7.25 W x 1.5 H x 8 D (inches)

184 W x 38 H x 203 D (mm)

Weight: Approx. 2 lbs; .91 kg

Deuce®
Intelligent Video Scaler

GSA Schedule
Contract GS-03F-5063C

UL N12911 CE FC

You can learn more about

fiber optic transmission,

scan conversion,

video scaling and more

online at commspecial.com

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

Sales

CSI Communications Specialties, Inc.

631-273-0404 | commspecial.com
info@commspecial.com

Made in the USA

Deuce® SDQ

Versatile scaler, line doubler and line quadrupler offers quality performance at a very affordable price

Ideal Applications:

Presentation, Education, Museums

Features

Intelligent video scaling to three resolutions, plus line doubling and line quadrupling

Output vertical refresh rate locked to input vertical refresh rate (59.94 Hz NTSC; 50 Hz PAL)

Auto detects and applies best motion compensation algorithm, including inverse 3:2 pulldown (Adaptive Frame Mode)

Supports 16:9 "letterbox" videotape and DVD sources

Switchable composite, S-Video and Y-Cb-Cr component inputs in NTSC and PAL standards

VGA-compatible HD-15 connector provides RGBHV, RGBS or Y-Cb-Cr progressive scan output formats

RS-232 remote port for use with a media controller

Non-volatile memory remembers all settings

Lockout function on front panel controls

Universal input power supply incorporated in chassis

Back Panel Drawing of Deuce SDQ

Ordering Information

Part Number	Description
2240-pp	Deuce SDQ
1119-006	6-ft. VGA extension cable
1119-025	25-ft. VGA extension cable
1119-50	50-ft. VGA extension cable
1119-100	100-ft. VGA extension cable
1206	6-ft. HD-15M to 5 x BNC cable
1210	12-ft. 3 x RCA Phono cable
1240	Rackmount for one 2240 unit
1241	Rackmount for two 2240 units

NOTE: Deuce SDQ is available with international line cords. Please specify when ordering.

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
JP - Japan
AU - Australia
UK - United Kingdom
EU - Europe

Input/Output:

Input Video Standards: NTSC, PAL (B, G, H, I)

Input Types: Composite, S-Video (Y/C) and component YCbCr, all terminating in 75 Ohms

Input Connectors: Composite: RCA-F; S-Video: 4-pin mini-DIN-F; Component: 3 RCA-F

Input Decoding: 16-bit YUV with adaptive 4H comb filter processing

Output Types: HD-15F connector with standard VGA pin-out which can be configured as RGBHV, RGBS or YCbCr, selectable through rear panel switch

Output Refresh Rates: (locked to input)
    59.94 Hz (NTSC input)   50 Hz (PAL input)

Output Resolutions:
    800 x 600, 1024 x 768, 1280 x 1024, line double, line quadruple

Auto detect and apply motion compensation, selecting from three algorithms
    Static mesh (images with little or no motion)
    Vertical temporal (standard video)
    Adaptive frame (inverse 3:2 pulldown, for video originating
        from a film source)

Remote Control: RS-232 on 3-pin "Phoenix" type connector

Equipment Included:

Deuce SDQ Intelligent Video Scaler

AC line cord

S-Video input cable

Composite video input cable with RCA male to RCA male

User Manual

Power:

Internal universal input AC power supply

Input: 85-265 volts AC, 47-63 Hz

UL/CSA/TUV/CE approved

Maximum specified power: 7 Watts

Dimensions:

7.25 W x 1.5 H x 8 D (inches)

184 W x 38 H x 203 D (mm)

Weight: Approx. 2 lbs; .91 kg

About CSI

Communications Specialties, Inc. (CSI) is an award-winning manufacturer of Pro A/V products for the distribution, conversion or transmission of television and computer video signals, including fiber optic transmission systems, scan converters and video scalers. The company was founded in 1983 by veterans of the broadcast industry. Since then, CSI has managed to consistently design innovative products that are used worldwide by Fortune 500 Companies in a variety of markets such as Broadcast/Professional A/V, Video Conferencing, Education, Home Theater, Security, ITS, Industrial Monitoring, and more!

Also from CSI: Fiberlink® and Scan Do® Scan Converters.

Deuce®
Intelligent Video Scaler

GSA Schedule
Contract GS-03F-5063C

You can learn more about

fiber optic transmission,

scan conversion,

video scaling and more

online at commspecial.com

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

Sales

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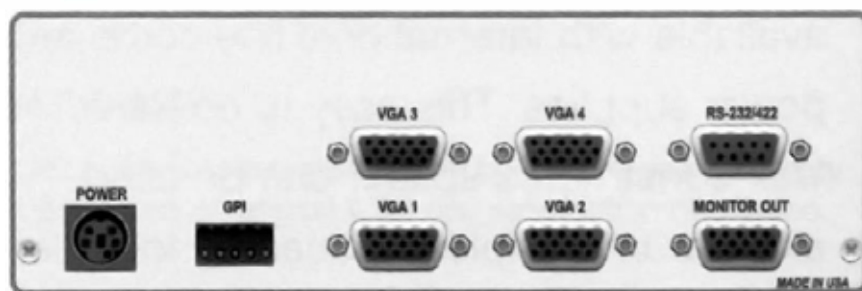
Made in the USA

Splitters & Switches

Quadswitch™ for VGA

High-performance 4x1 active switch with fully buffered inputs and output and advanced sync processing

Ideal Applications:

Presentation, Education, Contol Room, Court Room

Part#	Name	# Inputs
1340	Quadswitch™	4

Back Panel Drawing of QuadSwitch™ for VGA (1340)

Features

Switch one of four VGA computer sources to one output

Can drive any type of monitor, flat panel, projector or display that is VGA compatible

300 MHz bandwidth

Fully buffered inputs and output

All electronic switching; no relays

Sync outputs capable of driving 75 Ohm loads

Advanced sync processing, with the ability to support other types of RGB signals (such as sync-on-green) using adaptor cables

Easy-to-use front panel push buttons for selection of inputs

Two remote control options: RS-232/422 serial port and/or one-to-one contact closure to ground

Designed for easy rackmounting

Unit comes with UL/CSA/CE approved power supply. Input and output cables must be purchased separately

Ordering Information

Part Number	Description
1340-pp	QuadSwitch™ for VGA
1244	Single rackmount kit for one 1340 unit
1245	Double rackmount kit for two 1340 units
1119-006	6-ft. extention cable w/HD-15 M/F termination
1119-010	10-ft. extention cable w/HD-15 M/F termination
1119-025	25-ft. extention cable w/HD-15 M/F termination
1119-050	50-ft. extention cable w/HD-15 M/F termination
1119-100	100-ft. extention cable w/HD-15 M/F termination
1119	CAB-19 raw extension cable cut to custom length. Call for details.

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America	AU - Australia	EU - Europe
JP - Japan	UK - United Kingdom	

Sales

Input/Output:

Input Type: VGA compatible, RGBHV
(any RGB system may be used with appropriate adaptors)

Input Impedance: RGB - 75 Ohms H & V - high impedance

Input/Output Connectors: HD-15F

RGB Bandwidth: 300 MHz (-3 dB)

RS-232/422 Connector: DB-9F

Contact Closure Connector: 5-pin (mating connector provided)

Power connector is 5-pin mini-DIN-F

Equipment Included:

QuadSwitch for VGA unit

UL/CSA/CE approved power supply (230 Volts AC/50 Hz TUV/CE approved tabletop supply is also available)

User's manual

Dimensions:

QuadSwitch: 7.25 W x 2.5 H x 3.25 D (inches); 184 W x 64 H x 83 D (mm)

Weight: Approximately 3 lbs.; 1.4 kg

Power:

100 Volts AC to 240 Volts AC to 240 volts AC, 47-67 Hz, tabletop

UL/CSA/TUV/CE approved

You can learn more about fiber optic transmission, scan conversion, video scaling and more online at commspecial.com

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

About CSI

Communications Specialties, Inc. (CSI) is an award-winning manufacturer of Pro A/V products for the distribution, conversion or transmission of television and computer video signals, including fiber optic transmission systems, scan converters and video scalers. The company was founded in 1983 by veterans of the broadcast industry. Since then, CSI has managed to consistently design innovative products that are used worldwide by Fortune 500 Companies in a variety of markets such as Broadcast/Professional A/V, Video Conferencing, Education, Home Theater, Security, ITS, Industrial Monitoring, and more!

Also from CSI: Scan Do® Scan Converters and Deuce® Video Scalers

Sales

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Splitters for VGA

Fully-buffered distribution amplifiers for VGA, available in five models offering two to ten outputs

Ideal Applications:

Digital Signage, Remote Monitoring, Corporate, Manufacturing, Inspection, Education, Control Room, Court Room

Part#	Name	# Outputs
1302	Twinsplit®	2
1304	Quadsplit®	4
1306	Hexisplit®	6
1308	Octosplit®	8
1310	Decisplit®	10

Back Panel Drawing of TwinSplit for VGA (1302)

Features

Connect multiple VGA monitors to a single VGA source

Supports all VGA, SVGA, XGA, SXGA and UXGA resolutions up to 1600 x 1280

Operates at distances up to 250 feet

300 MHz bandwidth

Compatible with newer Apple video interfaces, including: iMAC, Power MAC G4 Cube, Power MAC G4, Macintosh Server G4, iBook and Titanium Powerbook G4

Compact, all metal casing

Input and output connectors located on rear

Designed for easy rackmounting

Unit comes with UL/CSA/CE approved power supply and one 6-ft. input cable. Output cables must be purchased separately

Ordering Information

Part Number	Description
1302-pp	TwinSplit® for VGA
1304-pp	QuadSplit® for VGA
1306-pp	HexiSplit® for VGA
1308-pp	OctoSplit® for VGA
1310-pp	DeciSplit® for VGA
1240	Single rackmount kit for one1302 unit
1241	Double rackmount kit for two 1302 units
1244	Single rackmount kit for one 1304, 1306, 1308 or 1310 unit
1245	Double rackmount kit for two 1304, 1306, 1308 or 1310 units
1119-006	6-ft. extention cable w/HD-15 M/F termination
1119-010	10-ft. extension cable w/HD-15 M/F termination
1119-025	25-ft. extension cable w/HD-15 M/F termination
1119-050	50-ft. extension cable w/HD-15 M/F termination
1119-100	100-ft. extension cable w/HD-15 M/F termination
1119	CAB-19 raw extension cable cut to custom length. Call for details.

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America	AU - Australia	EU - Europe
JP - Japan	UK - United Kingdom	

Sales

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Input/Output:

All input and output connectors are HD-15F

All sync outputs can drive either TTL loads or be terminated in 75 Ohms

RGB outputs drive standard 75 Ohm loads

Power connector is 5-pin mini-DIN-F

Monitor type switch is used to set the monitor ID bits for the VGA card

Equipment included:

VGA Splitter unit

UL/CSA/CE approved power supply 230 Volts AC/50 Hz TUV/CE approved (tabletop supply is also available)

6ft. HD-15M to HD-15 M input cable to connect from VGA output

User's manual

Dimensions:

TwinSplit: 7.25 W x 1.5 H x 3.25 D (inches); 184 W x 38 H x 83 D (mm)

QuadSplit: 7.25 W x 2.5 H x 3.25 D (inches); 184 W x 64 H x 83 D (mm)

HexiSplit: 7.25 W x 2.5 H x 3.25 D (inches); 184 W x 64 H x 83 D (mm)

OctoSplit: 7.25 W x 2.5 H x 3.25 D (inches); 184 W x 64 H x 83 D (mm)

DeciSplit: 7.25 W x 2.5 H x 3.25 D (inches); 184 W x 64 H x 83 D (mm)

Weight: TwinSplit: approx. 3 lbs. (1.4 kg.); All others: approx. 3.5 lbs. (1.6 kg)

Power

TwinSplit and QuadSplit: 120 Volts AC, 60 Hz wall plug-in power supply or 230 Volts AC, 50 Hz tabletop

HexiSplit, OctoSplit and DeciSplit: 100 Volts AC to 240 Volts AC, 47-63 Hz universal input tabletop supply

UL/CSA/TUV/CE approved

About CSI

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Also from CSI: Fiberlink®, Scan Do® Scan Converters & Deuce Video Scalers

You can learn more about fiber optic transmission, scan conversion, video scaling and more online at commspecial.com

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor. See website for terms and conditions.

Sales

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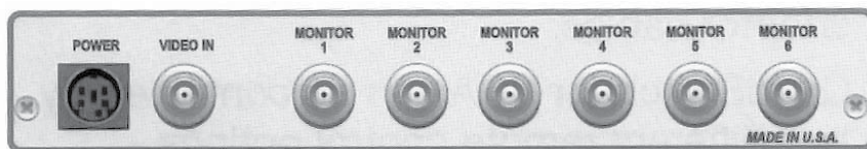**info@commspecial.com**

Splitter for Composite Video

Fully-buffered six output distribution amplifier
supports composite video signals in NTSC and PAL formats

Ideal Applications:

Professional Video, Remote Monitoring, Security,
Education, Court Room, Control Room

Part#	Name	# Outputs
1706	Hexisplit®	6

Back Panel Drawing of HexiSplit® for Video (1706)

Features

Connect multiple video monitors
to a single composite video source

Supports NTSC and PAL formats

Operates at distances up to 250 feet

300 MHz bandwidth

< 1 ns rise time

Compact, all metal casing

Input and output connectors
located on rear

Designed for easy rackmounting

Unit comes with UL/CSA/CE approved
power supply. Input and output
cables must be purchased separately

Ordering Information

Part Number	Description
1706-pp	HexiSplit® for Video
1240	Single rackmount kit for one 1706 unit
1241	Double rackmount kit for two 1706 units
1159-006	6-ft. extention cable w/2 x BNC-M termination
1159-012	12-ft. extention cable w/2 x BNC-M termination
1159-025	25-ft. extention cable w/2 x BNC-M termination
1159-050	50-ft. extension cable w/2 x BNC-M termination
1159	CAB-59 raw extension cable cut to custom length. Call for details.

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America   AU - Australia   EU - Europe
JP - Japan   UK - United Kingdom

Sales

CSI Communications Specialties, Inc.

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Input/Output:

All input and output connectors are BNCs

Outputs drive standard 75 Ohm loads

Differential gain: <0.1%

Differential phase: <0.1 degree

Power conector is 5-pin mini-DIN-F

Equipment included:

Video Splitter unit

UL/CSA/CE approved power supply 230 Volts AC/50 Hz TUV/CE approved tabletop supply is also available)

User's manual

Dimensions:

HexiSplit: 7.25 W x 1.5 H x 3.25 D (inches); 184 W x 38 H x 83 D (mm)

Weight: Each unit weights approx. 3 lbs. with power supply (1.35 kg)

Power

120 Volts AC, 60 Hz wall plug-in power supply or 230 Volts AC, 50 Hz tabletop

UL/CSA/TUV/CE approved

You can learn more about fiber optic transmission, scan conversion, video scaling and more online at commspecial.com

About CSI

Communications Specialties, Inc. (CSI) is an award-winning manufacturer of Pro A/V products for the distribution, conversion or transmission of television and computer video signals, including fiber optic transmission systems, scan converters and video scalers. The company was founded in 1983 by veterans of the broadcast industry. Since then, CSI has managed to consistently design innovative products that are used worldwide by Fortune 500 Companies in a variety of markets such as Broadcast/Professional A/V, Video Conferencing, Education, Home Theater, Security, ITS, Industrial Monitoring, and more!

The **Fiberlink®** line offers an extensive and affordable family of fiber optic transmission systems for the Professional A/V marketplace and includes several ground-breaking products for the transmission of high-resolution RGB signals. Systems for point-to-point and point-to-multipoint signal distribution make these products highly desirable for any Pro A/V architecture. New products are constantly being designed and developed and you can get the latest information at commspecial.com

Our award-winning product line, the **Scan Do®** family of computer to video scan converters, has redefined industry standards in computer video to NTSC/PAL technology with unsurpassed performance in its price range. All models support high resolutions and refresh rates and are VGA and Mac® compatible. The feature-rich and versatile Scan Do family offers the widest range of scan converters on the market.

Also from CSI: Fiberlink®, Scan Do® Scan Converters & Deuce Video Scalers

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

Sales

CSI Communications Specialties, Inc.

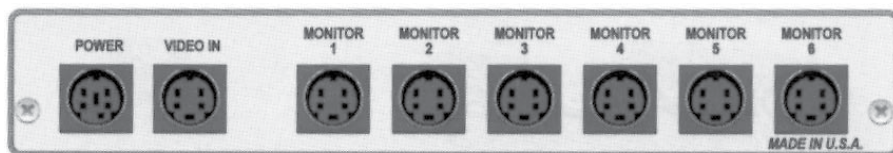**631-273-0404 | commspecial.com**
info@commspecial.com

Splitters for S-Video
Fully-buffered two and six output distribution amplifiers support S-Video signals in NTSC and PAL formats

Ideal Applications:
Home Theatre, Presentation, Court Rooms, Medical

Part#	Name	# Outputs
1802	Twinsplit®	2
1806	Hexisplit®	6

Back Panel Drawing of HexiSplit® for S-Video (1806)

Features

Connect multiple S-Video monitors to a single S-Video source

Supports NTSC and PAL formats

Operates at distances up to 250 feet

300 MHz bandwidth

< 1 ns rise time

Compact, all metal casing

Input and output connectors located on rear

Designed for easy rackmounting

Unit comes with UL/CSA/CE approved power supply. Input and output cables must be purchased separately

Ordering Information

Part Number	Description
1802-pp	TwinSplit® for S-Video
1806-pp	HexiSplit® for S-Video
1240	Single rackmount kit for one 1806 unit
1241	Double rackmount kit for two 1806 units
1250	Single rackmount kit for one 1802 unit
1251	Double rackmount kit for two 1802 units
1130-006	6-ft. extention cable w/2 x 4-pin mini-DIN-M termination
1130-012	10-ft. extention cable w/2 x 4-pin mini-DIN-M termination
1130-025	25-ft. extention cable w/2 x 4-pin mini-DIN-M termination
1130-050	50-ft. extention cable w/2 x 4-pin mini-DIN-M termination
1130	CAB-30 raw extension cable cut to custom length. Call for details.

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America	AU - Australia	EU - Europe
JP - Japan	UK - United Kingdom	

Sales

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Input/Output:

All input and output connectors are 4-pin mini-DIN-F

Outputs drive standard 75 Ohm loads

Differential gain: <0.1%

Differential phase: <0.1°

Power conector is 5-pin mini-DIN-F

Equipment included:

S-Video Splitter unit

UL/CSA/CE approved power supply 230 Volts AC/50 Hz TUV/CE approved tabletop supply is also available)

User's manual

Dimensions:

TwinSplit: 4.25 W x 1.5 H x 3.25 D (inches); 108 W x 38 H x 83 D (mm)

HexiSplit: 7.25 W x 1.5 H x 3.25 D (inches); 184 W x 38 H x 83 D (mm)

Weight: Each unit weights approx. 3 lbs. with power supply (1.35 kg)

Power

120 Volts AC, 60 Hz wall plug-in power supply or 230 Volts AC, 50 Hz tabletop

UL/CSA/TUV/CE approved

You can learn more about fiber optic transmission, scan conversion, video scaling and more online at commspecial.com

About CSI

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Our award-winning product line, the **Scan Do®** family of computer to video scan converters, has redefined industry standards in computer video to NTSC/PAL technology with unsurpassed performance in its price range. All models support high resolutions and refresh rates and are VGA and Mac® compatible. The feature-rich and versatile Scan Do family offers the widest range of scan converters on the market.

Also from CSI: Fiberlink®, Scan Do® Scan Converters & Deuce Video Scalers

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor. See website for terms and conditions.

Sales

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UPDATED 2/6/2009

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Splitters for RGB

Fully-buffered two and four output distribution amplifiers for RGB and YUV signals

Back Panel of QuadSplit for RGB (1261)

Ideal Applications:

Presentations, Education, Command and Control Centers, Simulation, Medical

Part#	Name	# Outputs
1260	Twinsplit®	2
1261	Quadsplit®	4

Features

Connect multiple projectors, LCD panels, multi-sync monitors and any equipment with BNC connectors to a single RGB or YUV source

Sync support for composite sync (CS), separate H & V, sync-on-green/Y and sync-on-all

Supports resolutions up to 1600 x 1280

300 MHz bandwidth

Operates at distances up to 250 feet

Compact, all metal casing

Designed for easy rackmounting

Unit comes with UL/CSA/CE approved power supply. Input and output cables must be purchased separately

Ordering Information

Part Number	Description
1260-pp	TwinSplit® for RGB
1261-pp	QuadSplit® for RGB
1244	Single rackmount kit for one 1260 or 1261 unit
1245	Double rackmount kit for two 1260 or 1261 units
1143-012	12-ft. extention cable w/10 x BNC-M termination
1143-025	25-ft. extention cable w/10 x BNC-M termination
1143-050	50-ft. extention cable w/10 x BNC-M termination
1143-100	100-ft. extention cable w/10 x BNC-M termination
1143	CAB-43 raw extension cable cut to custom length. Call for details.

NOTE: Please specify type of power supply when ordering.

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America   AU - Australia   EU - Europe
JP - Japan   UK - United Kingdom

Sales

Input/Output:

All input and output connectors are BNC connectors

All sync outputs can drive either TTL loads or be terminated in 75 Ohms

RGB outputs drive standard 75 Ohm loads

Sync support: composite (CS), separate H&V, sync-on-green, sync-on-all

Sync input level: 1 Vp-p to 5 Vp-p

Power connector is 2.5 MM phone plug, center positive

Monitor type switch is used to set the monitor sync type used by workstation

Equipment Included:

RGB Splitter unit

UL/CSA/CE approved power supply (230 Volts AC/50 Hz TUV/CE approved tabletop supply is also available)

User's manual

Dimensions:

TwinSplit 7.25 W x 2.5 H x 6.25 D (inches); 184 W x 64 H x 159 D (mm)

QuadSplit: 7.25 W x 2.5 H x 6.25 D (inches); 184 W x 64 H x 159 D (mm)

Both models weigh approximately 1 lb; 0.45 kg

Power:

110 Volts AC to 120 Volts AC wall plug-in power supply or 220 Volts AC to 240 Volts AC tabletop

UL/CSA/TUV/CE approved

You can learn more about fiber optic transmission, scan conversion, video scaling and more online at commspecial.com

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

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Also from CSI: Fiberlink®, Scan Do® Scan Converters & Deuce Video Scalers

TwinSplit® E.D.

"Extended Distance" VGA splitter distributes two buffered outputs to distances of up to 700 feet

CSI Communications Specialties, Inc.

Signal	Channel	Direction
VGA	1 (2 outputs)	→
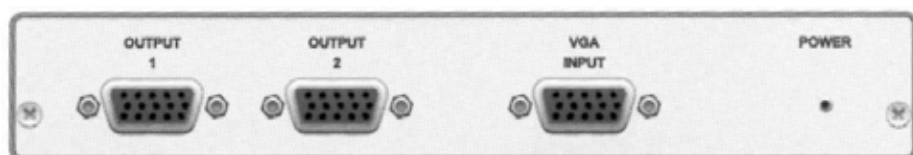
Back Panel Drawing of TwinSplit E.D.

Features

Distributes computer video from a single PC to two monitors located at remote distances. Maximum distance supported varies by computer resolution:

640 x 480:	700 feet maximum
800 x 600:	600 feet maximum
1024 x 768:	500 feet maximum

Two independent outputs, each with adjustments to correspond to cable length

Equalization parameters set automatically

Support for local loop-through monitor

Unit comes with UL/CSA/CE approved power supply and one 6-ft. input cable. Output cables must be purchased separately

Compatible with VGA splitter models 1302, 1304, 1306, 1308 and 1310

Optional rackmount kits are available

Ordering Information

Part Number	Description
1067	TwinSplit® E.D. - 110 volts AC/60 Hz
1067-EU	TwinSplit® E.D. - 230 volts AC/50 Hz
1127	CAB-27 extension cable
1198	TERM-4 termination of CAB-27 cable w/connectors
1192	CONN-3 HD-15 M/F connector kit
1240	Single rackmount kit for one unit
1241	Double rackmount kit for two units

Sales

CSI Communications Specialties, Inc.

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Input/Output:

VGA input: HD-15F

VGA outputs: HD-15F

Power input: 2.5 mm subminiature phone jack, tip positive

Maximum distances supported over CAB-27 cable
       640 x 480: 700 feet
       800 x 600: 600 feet
       1024 x 768: 500 feet

Equipment Included:

TwinSplit E.D.

Wall transformer power supply

6-ft. HD-15M to HD-15M cable for computer's VGA output
to the input of TwinSplit E.D.

User manual

Dimensions:

Size: 7.25 W x 1.5 H x 6.25 D (inches); 184 W x 38 H x 159 D (mm))

Weight: Approximately 1 lb. (0.45 kg)

Power:

110 - 120 volts AC input wall transformer is provided

Output is rated at 9 volts DC @ 500 mA

UL/CSA approved

230 volts AC/50Hz input TUV tabletop version is available

Interconnecting Cable

Extenson cables providing an HD-15 connector on each end are available in custom lengths. The CAB-27 cable contains four 75 Ohm coax cables and additional wires in one shielded jacket. This cable may be ordered with a variety of termination options.

About CSI

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Also from CSI: Fiberlink®, Scan Do® Scan Converters & Deuce Video Scalers

GSA Schedule
Contract GS-03F-5063C

You can learn more about

fiber optic transmission,

scan conversion,

video scaling and more

online at commspecial.com

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

Sales

CSI Communications Specialties, Inc.

631-273-0404 | commspecial.com
info@commspecial.com

Made in the USA

Cable Assembly/Termination

6202 Fiber Optic Termination Kit
Easily terminates fiber cable with no grinding, polishing, glues or epoxies

Features

Allows for easy and foolproof termination of ST and FCPC connectors on both multimode and single mode fibers

Uses Corning UniCam connector and termination system. Connectors must be purchased separately

Requires no grinding, epoxies or polishing

Provides consistently reliable high-performance terminations

Terminations can be completed in minutes, even without previous experience terminating fiber

All tools and adapters are provided

Visible light source (included) ensures precise terminations

Terminations may be used immediately

Ideal for both field and shop use

Lightweight and portable

Ordering Information

6202	Fiber Optic Termination Kit
6210	ST connector for 62.5 micron multimode fiber
6211	FCPC connector for 62.5 micron multimode fiber
6212	ST connector for 50 micron multimode fiber
6213	SC connector for 62.5 micron multimode fiber
6220	FCPC connector for single mode fiber
6221	ST connector for single mode fiber

Connectors are not included within the kit and must be ordered separately.

Kit Includes

All tools for preparing both jacketed and unjacketed fiber

Fiber cleaver and termination jig

Visible laser light source

Portable carrying case

Instruction manual

Corning produced training video tape (NTSC)

See a photo demonstration of fiber termination at: fiber-ed.com/res-fiber_term.htm

GSA Schedule
Contract GS-03F-5063C

Sales

CSI COMMUNICATIONS Specialties, Inc.

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info@commspecial.com

Fiber Cables and Connectors
Cables and connectors are available
for use with any Fiberlink® products

Fiber Cable Common Specifications

Single (simplex) and Dual (duplex) core
Single mode & Multimode fiber
8/10 micron, 50 micron & 62.5 micron
PVC and Plenum
Cables may be ordered raw or preterminated

Operating Temperature:	-20º to +70º C
Pull Load (Newtons) Install/Operate:	400/100
Bend Radius (cm) Install/Operate:	6.0/3.0
Buffer Dia. (micron):	900
Outer Diameter (O.D.) (mm):	Simplex: 2.9 Duplex: 2.9 x 5.8

Multimode Simplex Fiber Optic Cable

Description	Part #	Numerical Aperture	Max Attenuation 850nm	Max Attenuation 1310nm	Typical Attenuation 850nm	Typical Attenuation 1310nm
50 micron, PVC	6151	0.2	3.5	1.5	3.0	1.0
50 micron, Plenum	6171	0.2	3.5	1.5	3.0	1.0
Termination - 50 micron, 2 x ST connectors	6255					
62.5 micron PVC	6101	0.275	3.75	1.5	3.0	1.0
62.5 micron, Plenum	6111	0.275	3.75	1.5	3.0	1.0
Termination - 62.5 micron, 2 x ST connectors	6215					

Multimode Duplex Fiber Optic Cable

Description	Part #	Numerical Aperture	Max Attenuation 850nm	Max Attenuation 1310nm	Typical Attenuation 850nm	Typical Attenuation 1310nm
50 micron, PVC	6152	0.2	3.5	1.5	3.0	1.0
50 micron, Plenum	6172	0.2	3.5	1.5	3.0	1.0
Termination - 50 micron, 4 x ST connectors	6256					
62.5 micron, PVC	6102	0.275	3.75	1.5	3.0	1.0
62.5 micron, Plenum	6112	0.275	3.75	1.5	3.0	1.0
Termination - 62.5 micron, 4 x ST connectors	6216					

Single Mode Simplex Fiber Optic Cable

Description	Part #	Numerical Aperture	Max Attenuation 1310nm	Max Attenuation 1550nm	Typical Attenuation 1310nm	Typical Attenuation 1550nm
8/10 micron, PVC	6121	0.14	1.0	0.75	0.5	0.4
8/10 micron, Plenum	6131	0.14	1.0	0.75	0.5	0.4
Termination - 8/10 micron, 2 x FCPC	6225					

Single Mode Duplex Fiber Optic Cable

Description	Part #	Numerical Aperture	Max Attenuation 1310nm	Max Attenuation 1550nm	Typical Attenuation 1310nm	Typical Attenuation 1550nm
8/10 micron, PVC	6122	0.14	1.0	0.75	0.5	0.4
8/10 micron, Plenum	6132	0.14	1.0	0.75	0.5	0.4
Termination - 8/10 micron, 4 x FCPC	6226					

Connector Specifications

For use with 6202 Terminating Kit

Adaptor Specifications

Loss: Less than 0.5 dB

Length: 0.3 m

Typical Adaptor

Butt Splice Specifications

Loss: Less than 0.5 dB

Learn more about fiber at commspecial.com

Did you know that CSI carries a complete line of fiber optic test equipment?

Video Rackmounts and Cables

Rackmount kits and cables are available for use with all CSI video products. Cables may be ordered raw or preterminated.

Rackmount Description:

Sturdy single and double rackmount kits make it easy to mount Scan Do, Deuce, Splitter and Switcher units in standard 19-inch equipment racks.

Part Numbers for Single and Double Unit Rackmount Kits:

	Single	Double
Scan Do® Select	1240	1241
Scan Do® Pro II	1246	1247
Scan Do® Pro II/D	1246	1247
Deuce® MC	1240	1241
Deuce® HD	1240	1241
Deuce® SDQ	1240	1241
TwinSplit® VGA	1240	1241
QuadSplit® VGA	1244	1245
HexiSplit® VGA	1244	1245
OctoSplit® VGA	1244	1245
DeciSplit® VGA	1244	1245
QuadSwitch™ VGA	1244	1245
TwinSplit® RGB	1244	1245
QuadSplit® RGB	1244	1245
TwinSplit® S-Video	1250	1251
HexiSplit® S-Video	1240	1241
TwinSplit® E.D.	1240	1241
HexiSplit® Video	1240	1241

CAB-19 Ordering Information:

Part Number	Description
1119-006	6-ft extension cable with HD-15 M/F termination
1119-010	10-ft extension cable with HD-15 M/F termination
1119-025	25-ft extension cable with HD-15 M/F termination
1119-050	50-ft extension cable with HD-15 M/F termination
1119-100	100-ft extension cable with HD-15 M/F termination
1119	CAB-19 raw, for use with terminations and connector kit
1197	TERM-3 HD-15 M/F pre-attached to cable
1192	CONN-3 HD-15 M/F connector set
1176	HD-15 M/M gender Changer for connecting two cables together

CAB-19 Specifications:

For Use With: TwinSplit® for VGA, OctoSplit® for VGA, QuadSplit® for VGA, DeciSplit® for VGA, HexiSplit® for VGA, QuadSwitch™ for VGA

Cabling: Three coaxial cables, three single wires, and fibrillated polypropylene fillers twisted together

Outer Diameter: 0.300 inches nominal

Shield: Aluminum/polyester tape, aluminum facing in, 24% overlap

Electrical Characteristics: Coaxial impedance: 75 Ohm; Capacitance: 18.6 pF/ft nominal

Sales

CAB-30 Specifications:

For Use With: TwinSplit for S-Video, HexiSplit for S-Video

Cabling: Two mini-coaxial cables

Outer Diameter: 0.232 inches nominal

CAB-30 Ordering Information:

Part Number	Description
1130-006	6-ft. extension cable w/2 x 4-pin mini-DIN-M preattached to cable
1130-012	12-ft. extension cable w/2 x 4-pin mini-DIN-M preattached to cable
1130-025	25-ft. extension cable w/2 x 4-pin mini-DIN-M preattached to cable
1130-050	50-ft. extension cable w/2 x 4-pin mini-DIN-M preattached to cable
1130	CAB-30, raw, for use with terminations
1164	TERM-9; 2 x 4-pin mini-DIN-M preattached to cable
1178	S-Video F/F Gender Changer for connecting two cables together

CAB-43 Specifications:

For Use With: TwinSplit for RGB, QuadSplit for RGB

Cabling: Five coaxial cables

Outer Diameter: 0.365 inches nominal

Shield: 100% spiral tinned copper shield

Electrical Characteristics: coaxial impedance: 75 Ohms; Capacitance: 18.6 pF/ft nominal

CAB-43 Ordering Information:

Part Number	Description
1143-012	12-ft. extension cable w/10 BNC-M termination
1143-025	25-ft. extension cable w/10 BNC-M termination
1143-050	50-ft. extension cable w/10 BNC-M termination
1143-100	100-ft. extension cable w/10 BNC-M termination
1143	CAB-43, raw, for use with terminations
1143PL	CAB-43, Planum-rated, for use with terminations
1167	TERM-6, 10 x BNC-M pre-attached to cable
1166	TERM-8, 8 x BNC-M, pre-attached to cable

CAB-59 Specifications:

For Use With: HexiSplit for Video

Cabling: Single coaxial cable

Outer Diameter: 0.242 inches nominal

Electrical Characteristics: Coaxial impedance: 75 Ohms

CAB-59 Ordering Information:

Part Number	Description
1159-006	6-ft. extension cable w/2 x BNC-M termination
1159-012	12-ft. extension cable w/2 x BNC-M termination
1159-025	25-ft. extension cable w/2 x BNC-M termination
1159-050	50-ft. extension cable w/2 x BNC-M termination
1159	CAB-59, raw, for use with terminations
1169	TERM-5, 2 x BNC-M preattached to cable
1173	BNC F/F adaptor "bullet" for connectiong two cables together

CAB-27 Specifications:

For Use With: TwinSplit E.D. for VGA

Cabling: Four coaxial, two single wires, and fibrillated polypropylene fillers twisted together

Outer Diameter: 0.335 inches nominal

Electrical Characteristics: Coaxial impedance: 75 Ohms; Capacitance: 18.6 pF/ft nominal

CAB-27 Ordering Information:

Part Number	Description
1127	CAB-27, raw, for use with terminations and connector kits
1198	TERM-4, HD-15M/F preattached to cable
1192	CONN-3, HD-15 M/F connector set

Note: CAB-27 is not available in standard, pre-cut lengths.
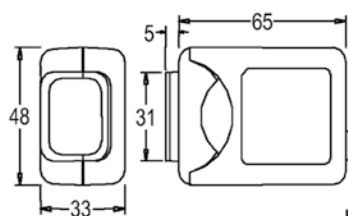
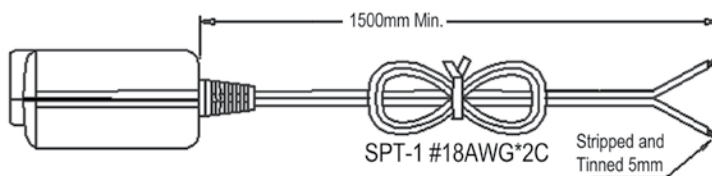GSA Schedule Contract GS-03F-5063C

Made in the USA

Power Supplies

PDPS-1: Universal Power Supply

Provides power to Fiberlink box units
requiring an external power adaptor

PDPS-1 POWER SUPPLY
Outline Drawing of Adaptor
(in millimeters)

65
5
48
31
33

1500mm Min.

SPT-1 #18AWG*2C

Stripped and
Tinned 5mm

Features

One power supply is required for each box unit (transmitter, receiver or transceiver) that does not feature an internal power supply

AC line cord is included. Two letter suffix following part number indicates type

Ordering Information

Part Number	Description
PDPS-1-pp	Fiberlink Universal Power Supply

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America   AU - Australia   EU - Europe
JP - Japan   UK - United Kingdom

Sales

![CSI Communications Specialties, Inc.]

631-273-0404 | commspecial.com
info@commspecial.com

General Specifications

Input Voltage/Frequency	100-250 VAC; 50/60 Hz
Input Rated Current	140 mA ±20% @ 220 VAC; 50/60 Hz
No Load Output Voltage	11.40 - 12.60 VDC
Output Voltage	11.40 - 12.60 VDC
Output Current (max)	Rated loading current: DC 1.0 A
Output Ripple	120 mV p-p max. @ 20 MHz bandwidth
Noise	150 mV p-p max. @ 20 MHz bandwidth
Operating Temperature Range	0 to +40° Celcius
Storage Temperature Range	-20 to +60° Celcius
Operating and Storage Humidity	20% to 90% relative humidity (non-condensing)
Vibration Test	After acceleration of 1G: 5-55 Hz, total amplitude, 1.5 mm for 1 hour. No functional or structural abnormality found
Weight	4.94 ounces ±35 ounces 140 grams ±10 grams
Dimensions	2.56 L x 1.89 W x 1.3 H (inches) 65 L x 48 W x 33 H (mm)
Over Voltage Protection	The output voltage is cut off when the output voltage is over 120%
Short Circuit Protection	Auto recovery mode; when short circuit condition is removed, output is restored
Efficiency	75% typical @ 250 VAC; 50/60 Hz
Shell	94V-0
EMI	Meets VCCI class 2; FCC class B; Cispr Class 2
Output Polarity	Wire with markings is positive (+)

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

PDPS-1: Universal Power Supply

Want to learn more about fiber?

Log on to commspecial.com for fiber related resources written for Pro A/V Professionals by Pro A/V Professionals!

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor. See website for terms and conditions.

About CSI

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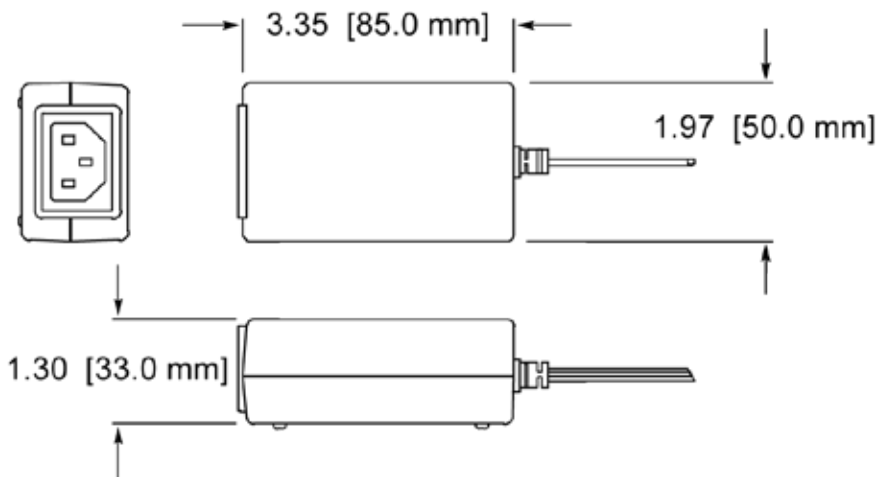**Also from CSI: Scan Do® Scan Converters and Deuce® Video Scalers**

PDPS-2: Universal Power Supply
Provides power to Fiberlink box units
requiring an external power adaptor

3.35 [85.0 mm]

1.97 [50.0 mm]

1.30 [33.0 mm]

Features

One power supply is required for each box unit (transmitter, receiver or transceiver) that does not feature an internal power supply

AC line cord is included. Two letter suffix following part number indicates type

Ordering Information

Part Number	Description
PDPS-2-pp	Fiberlink Universal Power Supply

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America	AU - Australia	EU - Europe
JP - Japan	UK - United Kingdom	

Sales

CSI — COMMUNICATIONS Specialties, Inc.

631-273-0404 | commspecial.com
info@commspecial.com

General Specifications

Input Voltage/Frequency	100-250 VAC; 50/60 Hz
Input Rated Current	100 mA @ 100 VAC; 50/60 Hz
No Load Output Voltage	11.40 volts - 12.60 VDC
Output Voltage	11.40 volts - 12.60 VDC
Output Current (max)	Rated loading current: DC 1.5 A
Output Ripple	120 mV p-p max. @ 20 MHz bandwidth
Noise	150 mV p-p max. @ 20 MHz bandwidth
Operating Temperature Range	0 to +40º Celcius
Storage Temperature Range	-55 to +85º Celcius
Operating and Storage Humidity	20% to 90% relative humidity (non-condensing)
Weight	12 ounces 345 grams
Dimensions	3.35 L x 1.97 W x 1.3 H (inches) 85 L x 50 W x 33 H (mm)
Over Voltage Protection	The output voltage is cut off when the output voltage is over 120%
Short Circuit Protection	Auto recovery mode; when short circuit condition is removed, output is restored
Efficiency	80% typical @ 115 VAC; 50/60 Hz
Shell	94V-0
EMI	Meets VCCI class 2; FCC class B; Cispr Class 2
Output Polarity	Wire with markings is positive (+)

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

PDPS-2: Universal Power Supply

UL N12911 CE FC

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Summer 2010 Product Catalog

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